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Tabulation of Published Data on Electron Devices of the U.S.S.R. Through March 1970

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Tabulation of Published Data on Electron Devices of the U.S.S.R. Through March 1970

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(Supersedes Technical Note 441)

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FOREWORD

This tabulation of published data on electron devices of the U.S.S.R. has been prepared as part of the National Bureau of Standards Electron Devices Data Service. Established in 1948 to provide technical data on radio tubes to members of the Bureau staff, the service has since been extended to other scientists and engineers in government and industry. In the course of the program, a large volume of information on tubes, transistors, diodes, and other electron devices has been accumulated. To make this information more readily available, a system has been worked out for automatically tabulating the data in handbook form. Previous tabulations include Tabulation on Data on Microwave Tubes, NBS Handbook 104 (1967) and Tabulation of Data on Receiving Tubes, NBS Handbook 103 (1967).

The present tabulation, updating Technical Note 441, is the result of compilation efforts extending over the past ten years. All the included information was taken from published specifications, and every effort has been made to ensure accuracy and completeness. However, the Bureau cannot assume responsibility for omissions nor for results obtained with these data.

Lewis M. Branscomb, Director

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Comments

on

Tabulations of Electron Devices of the U.S.S.R.

This revision is actually the sixth revision in this series of Tabulations of Electron Devices Of The U.S.S.R. published over the past nine years. They document the growth of the U.S.S.R. electron device industry to a degree in that a concerted attempt has been made to include all published data on their devices. Of course, no attempt has been made to penetrate their classified data and we have no knowledge of the time lag between classified pilot or serial production and data publication.

The growth of published device data is detailed in Table No. 1 which shows the increase in the number of device types in the various groups. Generally this increase, in the receiving tube area, has been in subminiature types and, in the transistor area, germanium types are still increasing faster than silicon types. The former transistor types have always been more numerous by a fairly large factor, as shown at the bottom of Table No. 1. In fact, during the past two years, the number of silicon devices more than doubled but still is only a third of the germanium devices.

There is no equivalent of the complete data sheet, with characteristic curves, as published by the European, Japanese, and United States device manufacturers, in the U.S.S.R. technology, and while their national (GOST) device specifications are quite complete, they appear to be delayed in publication. Furthermore, the published data is not consistent between different publications. For this reason, considerable effort is expended in intercomparing their data in the available publications, in selecting data for this tabulation to assure that the data is the probably correct value.

The sources of data for this tabulation are the books published by the institutes, the export brochures and the data contained in magazines and journals.

New prefix letters for transistors have been used during the past two or three years. The letters "G" and "K" designate germanium and silicon respectively. These are followed by the letters "D" or "T" for diodes or transistors. These letter prefixes appear to replace the "1T" and "2T" designations initiated three years ago but these type numbers have been retained in this tabulation until this can be ascertained definitely.

The prefix letter "M" was used for the first time about 3 years ago and is now quite common preceding the "P number" to indicate that the transistor enclosure is a cold weld between the copper cap and the glass-sealing alloy header.

The new Group X-A on integrated circuits introduced at the Paris fair in the Spring of 1969 is included. These devices range from a simple assembly of diodes to 30 transistors both in bipolar and MOS structures for a total of 314 devices tabulated. While the data on these devices is limited, the tabulation is arranged to include all the information presented.

Finally there is another new group of switching diodes, i.e., X-E, which includes "PIN" and Backward diodes.

Group		NBS 6637 1/15/60	NBS 7481 4/12/62	TN186 6/3/63	TN265 10/1/65	TN441 10/67	TN526 12/69
I	Numerical Listing	642	1362	1631	2360	2373	3020
II	Receiving Tubes	262	316	328	383	443	461
III	Power Tubes	89	147	176	176	179	188
IV	Rectifying Tubes		53	68	80	80	86
V	Voltage Regulator Tubes		23	30	33	38	38
VI	Current Regulator Tubes		8	9	9	9	9
VII	Thyratrons	26	42	69	54	60	79
VIII	Cathode Ray Tubes	59	87	100	109	115	157
IX	Microwave Tubes	13	17	20	27	101	101
X	Transistors	77	125	160	265	296	438
X-A	Integrated Circuits						317
XI	Rectifier Diodes	84	108	108	200	200	238
XI-A	Switching Diodes				16	16	16
XI-B	Tunnel Diodes				8	26	26
XI-C	Control Rectifiers				10	10	10
XI-D	Varactors				6	7	7
XI-E	Misc.						26
XII	Power Rectifiers			29	29	29	29
XII-A	Silicon Control Rectifiers				40	56	68
XIII	Regulator Diodes		8	8	41	89	103
XIV	Mixer and Detector Diodes		37	37	33	44	50
XV	Photoconductive Diodes		4	23	29	29	45
XVI	Photodiodes and Multipliers		25	63	73	72	93
XVII	Flash Tubes			12			
XVIII	Thermocouple Tubes		15	15	15	15	15
XIX	Thermistors	31	19	23	23	35	55
XX	Strobatrons		12	23	23	23	23
XXI	Counter Tubes		41	41	68	68	69
XXII	Discharge Tubes			20	25	25	31
XXIII	Decatrons			4	4	8	9
XXIV	Light Amplifiers			2	2	2	2
XXV	Tube Base Connections		164	162	173	212	225
	Total Devices	641	1087	1368	1781	2075	2789
	Transistors Germanium	73	119	140	224	248	329
	Transistors Silicon	4	6	20	41	48	102

Tabulation of Published Data on Electron Devices of the U.S.S.R.

Through March 1970

Charles P. Marsden

This tabulation includes published data on U.S.S.R. electron devices as collected from publications, mostly handbooks, published by the various ministries and institutes of the U.S.S.R. Information is given on all active devices ranging from receiving to microwave devices, semiconductor devices, and miscellaneous devices such as, for example, photographic flash tubes and thermistors.

Key words: Electron devices; electron tubes; semiconductors; U.S.S.R.

1. Introduction

The increased circulation of published literature and the importation of equipment from the U.S.S.R. has created a need for factual information about Russian electron devices. To satisfy this need, the National Bureau of Standards Electron Devices Data Service has prepared the present tabulation in a format that could be reproduced directly from punched cards.

This publication is the sixth revision and is an expansion of Technical Note No. 441 published in July, 1968. More that 500 new types have been added.

The sources of the data are the various publications produced in the U.S.S.R. and include books published by the various ministries, and technical magazines. To assure that the device values selected for use in this tabulation are the probably correct values, considerable effort has been taken to intercompare data from available publications. Because data for any one device may be derived from a number of intercompared sources, no references are given.

2. Description of the Tabulation

Within each group the type numbers are arranged in alpha-numerical order; the first numerical part of the type number is used as the prime sorting means. Alphabetical prefixes are secondary sorting means and alphabetical postfixes are tertiary means. For example, in the numerical listing, these type numbers will be found in the following order:

V1-0.1/40 SG2S
VT1 T0-2
1A2P 2A1

Alphabetical sorting is performed according to the English alphabet rather than the Russian which was transliterated according to the recommended practice of the Library of Congress as shown below:

А	A	К	K	Т	T
Б	B	Л	L	У	U
В	V	М	M	Ф	F
Г	G	Н	N	Х	Kh
Д	D	О	O	Ц	Ts
Е	Ye	П	P	Щ	Sh
Ж	Zh	Р	R	З	E
И	I	С	S	Я	JA

3. Organization of the Tabulation

Data in the 31 groups of the tabulation are presented with columnar headings appropriate to each group.

Group I is a numerical listing of all type numbers in the complete tabulation and also includes discontinued and obsolete type numbers. All these types are defined by a three-letter code to indicate the kind and type of device. Furthermore, under the heading "Group No.", Roman numerals are used to show the group number under which the data for a type will be found. The last column contains the GOST (USSR State National Standard) Specification Number (followed by the year of publication of the specification) is shown for the type number. These specifications include the information in and follow the format of the domestic military specifications.

Group I also constitutes an interchangeability list and known similar types are so identified. The following symbol code indicates the geographic area of manufacture and identifies obsolete or inactive devices.

$	Domestic manufacture
=	European "
+	Russian "
*	Obsolete or inactive

These symbol explanations apply only to Group I. Because the card punch limits the number of available symbols, the asterisk is used in tabulations for other groups with different meanings as noted in the columnar headings.

Titles of Groups II-XXIV describe the particular class of device listed under each group. Individual type numbers are arranged in alphanumerical order as described on page 1 under the heading: "2. Description of the Tabulation."

Under each columnar heading, the device characteristic is expressed in the most commonly used units. For example under the heading of Maximum Plate Current (I_p), the unit in the heading is mA (milliamperes). However, where the data are in amperes, the value will be tabulated with the number followed by the letter "A", e.g., 15A. All such letters used to indicate a unit change are included in the list of alphabetic symbols under "4.4 Code" on page 5.

A blank in any column indicates that no value was given in the available data.

Group XXV, "Tube Base Connections", lists the basing connections for the particular "Base No." of the previous groups by a system compatible with punched-cards, coding.

Instead of the usual base diagram or line drawing, the number of each base pin is given in the column whose heading is the appropriate electrode symbol. This system was developed because many of the Soviet types have base connections which do not conform to the standard base designations of the Electronic Industries Association. In those instances where an electrode is connected to more than one base pin, only the lowest numbered pin is shown in the tabulation.

Outline drawings are shown for semiconductor diodes, transistors and integrated circuits.

4. Terminology used in the Tabulation

4.1 Column Headings

Headings used in the various formats are either the standard symbols as defined by the Institute of Electrical and Electronics Engineers or words descriptive of the given device characteristic. Headings are not further defined due either to the difficulties of translation or lack of definite information.

4.2 Bulb Size

This column heading, which is used in the Receiving, Power, Rectifier, etc. Groups, uses a special code to describe the bulb shape and size. the numerical part of the code indicates the diameter of the glass bulb or metal anode (power tubes) in eighths of an inch according to the Electronic Industries Association. The alphabetical part of the code is explained on the following page.

PREFIX	POSTFIX
A - Air-cooled anode	B - Button glass stem
B - Bell-shape	F - Flat press glass stem
C - Ceramic construction	
G - Globe-shaped bulb	
F - Flat top of Soviet design	
M - Metal tube	
P - Spiral	
R - Ring-shaped	
S - ST design, i.e., the domed conical shaped glass bulb	
T - Cylindrical shape	
U - U-shape flash tube	
V - Vapor-cooled anode	
W - Water-cooled anode	

For example, a "T3F" would be a cylindrical bulb with a flat press having a diameter of 3/8 inch.

4.3 Special Symbols

Receiving tubes (Group II) have postfixed letters with the following meaning:

"V" - Ruggedized tubes with 500 hour life

"K" - Vibration tested

"Ye" - 3,000 to 10,000 hour long-life tubes

"I" - Intended for pulse use

Rectifier Diodes (Group XI) with postfixed letter "P" are available in reverse polarity.

4.4 Code

Due to the limitations of available columns in the punched card, one- to three-letter codes have been developed and used in the tabulation. These have been so chosen as to be readily understood. The following table lists code meanings alphabetically by code.

A	Change of unit to amperes
AAB	Alpha and Beta radiation
ACO	Acorn tube
ADR	And/or logic
AF	Audio frequency Forced Air cooling
AHE	Argon-Helium gas-filled
AHN	Argon-Helium-Neon gas-filled
AKN	Argon-Krypton gas-filled
AL	Alumium cathode; countertube
ALP	Alpha radiation
AMP	Alumium-Magnesium alloy with potassium surface
AMP	Amplifier
AN	Natural air cooling
AND	And Logic
ANR	And/Nor Logic
AR	Argon gas-filled
ARC	Arc rectifier-Mercury pool
BA	Barium (metal) cathode
BAG	Beta and gamma radiation
BAL	Ballast or current regulator
BAO	Barium oxide cathode
BEA	Beam Pentode
BET	Beta radiation
BIS	Bismuth sulphide
BL	Blue luminescence
BF	Boron Fluoride Quenching
BWT	Backward Wave Tube
BWD	Backward diode
C	Circular dynode arrangement Common collector operation Cold Cathode Continuous wave operation
CAM	Copper-Aluminum-Magnesium
CDS	Cadmium sulphide
CDSE	Cadmium selenide
CH	Charactron
CN	Converter
CO	Coax Connector
COM	Commutator tubes Temperature Compensation
CON	Control Switch Temperature Control
COU	Counter tube
CP	Cap, external, in tabulation of bases
CSB	Cesium antimony photo surface
CU	Copper cathode; counter tube
CYL	Cylindrical shape(Thermistors)
DBA	Double anode beam pentode
DEC	Decatron
DET	Detector operation
DIO	Diode With diode, e.g.,triode-diode
DSC	Disc shape
DT	Dark trace CR tube
DTL	Diode-Transistor Logic
DUO	Double, e.g.,double diode with separate cathodes Duo diode(single cathode)
DWD	With duodiode,e.g.,triode duodiode
E	Common emitter operation
EL	Electrometer Tube
ELM	Electromagnetic focus or deflection
ELS	Electrostatic focus or deflection
EXP	Expander
F	Filamentary type cathode
FE	Iron cathode; counter tube
FLP	Flip-Flop
G	Giga (10^9)
GAM	Gamma radiation
GAN	Germanium alloy, n-type
GAP	Germanium alloy, p-type
GAS	Gallium Arsenide
GDN	Germanium diffused junction, n-type
GDP	Germanium diffused junction, p-type
GE	Germanium
GEA	Germanium alloy junction
GEM	Germanium Mesa Structure
GEP	Germanium point-contact
GPN	Germanium, planar, n-type
GPP	Germanium point-contact, p-type
GR	Green luminescence Graphite cathode; counter tube
GS	Gas-filled
GSP	Germanium surface-barrier,p-type
GTB	Gated beam pentode
H	Heater type cathode
h	Hecto (10^2)
HE	Helium gas-filled
HEX	Hexode
HG	Mercury vapor-filled
HK	Hydrogen-krypton gas-filled
HPT	Heptode
HY	Hydrogen gas-filled
IC	Iconoscope
ID	Indicator tube
IGN	Ignitron tube
IM	Image orthicon
INV	Inverter
k	Kilo (10^3)
K	Potassium
KLA	Klystron Amplifier
KLO	Klystron Oscillator
KX	Krypton-xenon gas-filled
L	Linear dynode arrangement
LAM	Light Amplifier
LD	Lead cathode; counter tube
LIM	Limiter
LIT	Lighthouse
LO	Long persistence screen
M	Mega (10^6)
MAG	Magnetron
MCR	Metal-ceramic tube

MD	Medium persistence screen
MEA	Temperature measurement
MG	Magnesium cathode
MMP	MOS Amplifier
MOR	MOS - or Logic
MOS	Metal-Oxide-Semiconductor
MND	MOS-Nand Logic
MNR	MOS Nor Logic
MVB	Multivibrator
MX, MIX	Mixer
N	n-type construction S/C
n	Nano - 10^9
NA	Neon-Argon gas-filled
NDR	Nand/Nor Logic
NE	Neon gas-filled
NEH	Neon-helium gas-filled
NEU	Neutron
NI	Nickel cathode
NK	Neon-krypton gas-filled
NO, NOI	Noise Generator
NND	Nand Logic
NOR	Nor Logic
NSP	Nuclear Spectrometry
NUV	Nuvistor
OD	Double beam oscilloscope tube
OG	Orange-Green Luminescence
ONR	Or/Nor Logic
OR	Or Logic
ORD	Or/And Logic
OS	Oscilloscope tube
OSC	Oscillator
P	Pulse operation p-type construction
PA	Power amplifier
PB	Purple-Blue luminescence
PBS	Lead Sulphide
PEN	Pencil tube
PHM	Photomultiplier
PHO	Phototube
PIN	Pin type diode
PND	Pentode With pentode e.g.,triode,-pentode
POW	Power rectifier
PR	Projection Kinescope
PT	Phototelegraph Reproduction
PTG	Pentagrid
R	Rectangular-diagonal dimension
RA	Radar
RD	Red luminescence
REG	Regulator (voltage)
RF	Radio frequency
RTL	Resistor-Transistor Logic
S1-S7	Spectral sensitivity of photo surface
S	Max. dimension of cathode ray tube face
SAN	Silicon alloy, n-type
SAP	Silicon alloy, p-type
SCC	Scintillation Counters
SCG	Space-charge Grid (with)
SCH	Schmitt Trigger
SCR	Silicon controlled-rectifier
SDN	Silicon diffused junction, n-type
SEN	Silicon planar epitaxial-npn
SH	Short persistence screen
SI	Silicon
SIA	Silicon alloy junction
SID	Silicon Diffused junction
SIN	Single e.g.,single triode
SIM	Silicon Mesa
SIP	Silicon, point contact
SI4	Silicon, 4-layer rectifier
SM	Secondary emission pentode
SN	Tin Cathode; counter tube
SPN	Silicon planar n-type
SQ	Self-quenching type of counter
SS	Stainless Steel; Counter tube
ST	Storage tube
SWI	Switching diode or mode
T	Thoriated tungsten cathode
TET	Tetrode
THM	Thermocouple tube
THY	Thyratron
TMS	Thermistor
TRD	With triple diode
TRI	Triode With Triode e.g.,pentode-triode
TTL	Transistor Logic
TUN	Tunnel Diode
TV	Television tube Television circuits
TWN	Traveling-wave tube
μ	Micro (10^6)
U	U-shaped
UF	Ultra high frequency
UV	Ultra violet Radiation
V	Venetian-blind dynode
VAR	Varactor
VC	Vacuum
VB	Violet-blue luminescence
VI	Vidicon
VID	Video detector
VR	Voltage regulator
W	Change of units to watts Tungsten cathode Water-cooled
WG	Wave guide coupling
WH	White luminescence
XE	Xenon gas-filled
YG	Yellow Green luminescence
YO	Yellow-Orange luminescence
3C	Three color screen for television
50	Oscilloscope Tube, 5 Beam
*, #	Meaning of symbols indicated in Column Heading
<	Less than (before digits)
*	Obsolete type

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
144			XA		
FS-AG	PHC		XV		
FS-A0	PHC		XV		
FS-AV	PHC		XV		
FS-D0	PHC		XV		
FS-KG	PHC		XV		
FS-K0	PHC		XV		
FS-KV	PHC		XV		
TOS-M	TMS	CON	XIX		
0.24B12-18	BAL	SIN	VI		
0.3B17-35	BAL	SIN	VI		
0.3B65-135	BAL	SIN	VI		
0.425B55-12	BAL	SIN	VI		
0.6P25	PND	SIN	II	CK505AX	
0.6ZH6B	PND	SIN	II		
0.85B55-12	BAL	SIN	VI		
GR-0.5/1.6	DWD	SIN		GR1-0.25/1.5+	
GR1-0.25/1.5	DWD	SIN	IV		
TG-0.3/0.3	TRI	THY		TG1-0.1/0.3+, 884$	
TG-0.5/1.3	TET	THY		TG1-0.1/1.3+, 2050$	
VG0251500	DIO	SIN		GR1-0.25/1.5+	
AS-1	COU		XXI		
D1A	REC		XI		
D1B	REC		XI		
D1D	REC		XI		
D1G	REC		XI		
D1V	REC		XI		
D1YE	REC		XI		
D1ZH	REC		XI		
DG-S1	MIX		XIV		
DG-TS1	REC		XI	D2G+	
DK-I1	MIX		XIV		
DK-S1	MIX		XIV		
DK-V1	DET		XIV		
DL-S1	MIX				
F-1	PHO		XVI		
FD-1	PHC		XV		
FDK-1	PHC		XV		
FEU-1	PHM		XVI		
FEU-1B	PHM		XVI		
FEU-1B1V	PHM		XVI		
FEU-1B2V	PHM		XVI		
FEU-1S	PHM		XVI		
FEU-1V	PHM		XVI		
FS-A1	PHC		XV		
FS-D1	PHC		XV		
FS-K1	PHC		XV		
FSA-G1			XV		
FSD-G1			XV		
FSK-G1			XV		
FSK-P1			XV		
FT-1	PHC		XV		
FTG-1	PHC		XV		
GE-1	TET	SIN	III	GKE-100*	
GG-1-0.3/8	DIO	SIN	IV		
GG1-0.5/5	DIO	SIN	IV	VG1.5/5000+	13705-68
GG-1-0.5/20	DIO	SIN	IV		
GG-1-1/22	DIO	SIN	IV		
GG-1-2/5	DIO	SIN	IV		
GG-1-2/16	DIO	SIN	IV		
GG-1.5/15	DIO	SIN		GG1-0.5/5+	
GK1A	TRI	SIN	III		
GM1A	TRI	SIN	III		
GM1P	TRI	SIN	III		
GMI-1B	TRI	SIN	III		
GR1-02/15	DIO	SIN	IV		
GR-1-0.5/8.5	DIO	SIN	IV		
GR-1-2.5/15	DWD	SIN	IV		
GS-1B	TRI	SIN	III		
GUZH-1	PND	SIN		G411+	

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
I-1-25/0.8			IV		
I-1-50/20			IV		
I-1-70/0.8	TRI	IGN	IV	5551A$	
I-1-100/1.5	TRI	IGN	IV		
I-1-140/0.8	TRI	IGN	IV	5552A$	
I-1-350/0.8	TRI	IGN	IV	7673$	
IN-1	DEC		XXIII		
KF-1	TET	THN		GU-29+, 829B$	
KMT-1	TMS		XIX		
KZH1	*PND	SIN		G411*	
LD1	*TRI	SIN		12S3S+	
LG-1	DWD	SIN		12KH3S+	
LI-1	IC		VIII		
MMT-1	TMS		XIX		
MS1	TRI	SIN		GM-60+	
OG-1	DEC		XXIII		
P1A			X		
P1B			X		
P1D			X		
P1G			X		
P1I			X		
P1V			X		
P1YE			X		
P1ZH			X		
R-1			XXII		
RB-1			XXII		
S1A			X		
S1B			X		
S1D			X		
S1G			X		
S1V			X		
S1YE			X		
SBS-1	COU		XXI		
SFK-1	COU	UV	XXI		
SG1B	DIO	SIN		0A2$	
SG1P	DIO	SIN	V	0A2$	13282-67
SG1P-V	REG		V		
SG1P-YE	REG		V		
SI-1BG	COU		XXI		
SI-1G	COU			STS-1+	
SK1-5.6/1000	REG		XIII		
SK1-6.8/1000	REG		XIII		
SK1-8.2/1000	REG		XIII		
SK1-10/500	REG		XIII		
SK1-12/500	REG		XIII		
SK1-15/500	REG		XIII		
SK1-18/500	REG		XIII		
SK1-22/150	REG		XIII		
SK1-24/150	REG		XIII		
SK1-28/150	REG		XIII		
SK1-30/150	REG		XIII		
SK1-36/150	REG		XIII		
SK1-43/150	REG		XIII		
SK1-51/150	REG		XIII		
SK1-62/50	REG		XIII		
SK1-75/50	REG		XIII		
SK1-95/50	REG		XIII		
SK1-110/50	REG		XIII		
SK1-120/50	REG		XIII		
SK1-150/50	REG		XIII		
SK1-180/50	REG		XIII		
SK1-220/25	REG		XIII		
SK1-270/25	REG		XIII		
SK1-300/25	REG		XIII		
ST1-17	TMS	MEA	XIX		
ST1-18			XIX		
ST1-19	TMS	MEA	XIX		
ST-1-21	TMS		XIX		
ST-1-30	TMS		XIX		
STS-1	COU		XXI		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	GOST SPEC. NO.
T-1B	TRI	THY		TG-1B+	
TG1B	TRI	THY	VII		
TG1B-V	TRI	THY	VII		
TG1P			VII		
TG1-.02/0.5	TET	THY	VII		
TG1-0.1/0.3	TRI	THY	VII	884$	
TG1-0.1/1.3	TET	THY	VII	2050$	7843-55
TG1-0.5/12	TRI	THY	VII		
TG1-1.0/0.8	TET	THY	VII		
TG1-1.5/2	TRI	THY	VII		
TG1-1.6/1.3	TRI	THY	VII		
TG1-2/8			VII		
TG1-2.5/4	TRI	THY	VII	TG8/3, TG1-2.5/3*+	7952-56
TG1-2.5/10			VII		
TG1-3.2/1.3	TRI	THY	VII		
TG1-5/3	TRI	THY	VII		7953-56
TG1-6.4/1.3	TRI	THY	VII		
TG1-12.5/1.3	TRI	THY	VII		
TG1-0.1/0.3	TRI	THY	VII		
TG1-16	TRI	THY	VII		
TG1-1-3/1	TET	THY	VII		
TG1-1-5/1.1	TRI	THY	VII		
TG1-1-10/1	TRI	THY	VII		
TG1-1-35/3	TRI	THY	VII	3C45$	
TG1-1-50/5	TRI	THY	VII		
TG1-1-90/8	TRI	THY	VII	MTI-4*+	
TG1-1-130/8	TRI	THY	VII		
TG1-1-130/10	TRI	THY	VII		
TG1-1-200/12			VII		
TG1-1-325/16	TRI	THY	VII	MTI-5+, TGI-325/16+	
TG1-1-400/3.5	TRI	THY	VII		
TG1-1-400/16	TRI	THY	VII		
TG1-1-500/16			VII		
TG1-1-500/20			VII		
TG1-1-700/25	TRI	THY	VII		
TG1-1-1000/25			VII		
TG11-2000/35			VII		
TG11-2500/35			VII		
TKI-1	TMS	MLA	XIX		
TKH1	TRI	THY	VII	313C	
TKH1B	TRI	THY	VII		
TKHI-16	PND		VII		
TM-1	TRI	SIN		6S5D+, 2C40$	
TNI-1.5	DEC		XXIII		
TO-1	PND	SIN		10ZH12S+	
TR1-2.5/3			VII		
TR1-5/2	TRI	THY	VII	VT-3	7954-56
TR1-6/3			VII		
TR1-6/15	TRI	THY	VII		7955-68
TR1-15/3			VII		
TR1-15/15	TRI	THY	VII		
TR1-15/20			VII		
TR1-40/15	TRI	THY	VII		7956-56
TR1-65/15	TRI	THY	VII		
TR1-130/15	TRI	THY	VII		
TSG-1	PHO		XVI		
TSH-1	TMS	MEA	XIX		
TST-1A	TMS	REG	XIX		
TSV-1	PHO		XVI		
TV6-1	THM		XVIII		
V1-00313	DIO	SIN	IV	V13/30+	
V1-02/20	DIO	SIN	IV		
V1-03/13	DIO	SIN	IV		
V1-05/70	DIO	SIN	IV		
V1-06/30	DIO	SIN	IV		
V1-1/2.5	DIO	SIN	IV		
V1-1/30	DIO	SIN	IV		
V1-1/40	DIO	SIN	IV		
V1-2/40	DIO	SIN	IV		
V1-3/16	DIO	SIN	IV		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	GOST SPEC. NO.
V1-3/70	DIO	SIN	IV		
V1-4/40	DIO	SIN	IV		
V1-15/55	DIO	SIN	IV		
VD1	DIO	SIN		V1-1/40+	
VDI-1D	DIO	SIN		VI-1-100/50+	
VG1/6500	DIO	SIN	IV		
VG1.5/5000	DIO	SIN		GG2-0.5/5+	
VI-1-3/20	DIO	SIN	IV		
VI-1-3/30	DIO	SIN	IV		
VI-1-18/32	DIO	SIN	IV		
VI-1-27/35	DIO	SIN	IV		
VI-1-30/25	DIO	SIN	IV		
VI-1-70/32	DIO	SIN	IV		
VI-1-100/50	DIO	SIN	IV		
VO-1	DIO	SIN	IV		
VSTS-1	PHO			F-3+	
VT-1	TRI	THY		TG-2.5/5+	
1A1P	PTG	SIN	II	1R5$, DK91, DK192	7708-66
1A2P	PTG	SIN	II	DK96=, 1R5$	9836-66
1A501A			XI-E		
1A501G			XI-E		
1A501I			XI-E		
1A504A			XI-E		
1A504B			XI-E		
1B1P	PND	DIO	II	1S5$, DAF91=, DAF191	8006-56
1B2P	PND	DIO	II	DAF96=, 1S5$	9837-66
1B5-9	BAL	SIN	VI		
1B10-17	BAL	SIN	VI		
1DA191			XA		
1E1P	TET	SIN	II		
1E3P	*TRI	SIN	II	EM-4+	
1F2B	PND	TRI	II		
1GF191			XA		
1GF192	MVB		XA		
1GF193	MVB		XA		
1I2P	PND	TRI	II		
1I-302A	TUN	GAS	XI-B		
1I-302B	TUN	GAS	XI-B		
1I-302G	TUN	GAS	XI-B		
1I-302V	TUN	GAS	XI-B		
1IE201			XA		
1IL131A			XA		
1IL131B			XA		
1IL131V			XA		
1IL141A			XA		
1IL141B			XA		
1IR141A			XA		
1IR141B			XA		
1IR201	MOS		XA		
1IR202	MOS		XA		
1IR451	MOS		XA		
1JAM351	MOS		XA		
1K1P	PND	SIN	II	1T4$, DF91=	7707-55
1K2P	PND	SIN	II	DF96=, 1T4$	9946-66
1K12B	PND	SIN	II		
1KP191			XA		
1KT011A			XA		
1KT011B			XA		
1KT011G			XA		
1KT011V			XA		
1KT491			XA		
1LB041	NND		XA		
1LB042	NND		XA		
1LB043	NND		XA		
1LB044	NND		XA		
1LB061	NDR		XA		
1LB0610	NDR		XA		
1LB062	NDR		XA		
1LB063	NDR		XA		
1LB064	NDR		XA		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
1LB065	NDR		XA		
1LB066	NDR		XA		
1LB067	NDR		XA		
1LB068	NDR		XA		
1LB069	NDR		XA		
1LB091A	NDR		XA		
1LB091B	NDR		XA		
1LB091G	NDR		XA		
1LB091V	NDR		XA		
1LB092A	NDR		XA		
1LB092B	NDR		XA		
1LB111	NOR		XA		
1LB112	NOR		XA		
1LB113	NOR		XA		
1LB131A	NOR		XA		
1LB131B	NOR		XA		
1LB131V	NOR		XA		
1LB132A	NOR		XA		
1LB132B	NOR		XA		
1LB132V	NOR		XA		
1LB133A	NOR		XA		
1LB133B	NOR		XA		
1LB133V	NOR		XA		
1LB134A	NOR		XA		
1LB134B	NOR		XA		
1LB134V	NOR		XA		
1LB135A	NOR		XA		
1LB135B	NOR		XA		
1LB135V	NOR		XA		
1LB141A	NOR		XA		
1LB141B	NOR		XA		
1LB142A	NOR		XA		
1LB142B	NOR		XA		
1LB143A	NOR		XA		
1LB143B	NOR		XA		
1LB144A	NOR		XA		
1LB144B	NOR		XA		
1LB145A	NOR		XA		
1LB145B	NOR		XA		
1LB146A	NOR		XA		
1LB146B	NOR		XA		
1LB211A	NDR		XA		
1LB211G	NDR		XA		
1LB211V	NDR		XA		
1LB212A	NDR		XA		
1LB212B	NDR		XA		
1LB251	NND		XA		
1LB331A	NND		XA		
1LB331B	NND		XA		
1LB332A	NND		XA		
1LB332B	NND		XA		
1LB341	NOR		XA		
1LB342	NOR		XA		
1LB371			XA		
1LB372	ONR		XA		
1LB381	ONR		XA		
1LB391	ONR		XA		
1LB392	ONR		XA		
1LB471	MNR		XA		
1LB472	MNR		XA		
1LI041	AND		XA		
1LI042	AND		XA		
1LI043	AND		XA		
1LI044	AND		XA		
1LI045	AND		XA		
1LL201	MOR		XA		
1LP061	OR		XA		
1LP062	OR		XA		
1LP063	OR		XA		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
1LP064	OR		XA		
1LP065	OR		XA		
1LP066	OR		XA		
1LP067	OR		XA		
1LP068	OR		XA		
1LP091			XA		
1LP141	OR		XA		
1LP142	OR		XA		
1LP201	MOS		XA		
1LP211			XA		
1LP251	MOS		XA		
1LP331	OR		XA		
1LP371			XA		
1LP391			XA		
1LP421	MOS		XA		
1LP471	MOS		XA		
1LR061	ADR		XA		
1LR062	ADR		XA		
1LR063	ADR		XA		
1LR064	ADR		XA		
1LR271	ADR		XA		
1LR331A	ADR		XA		
1LR331B	ADR		XA		
1LR341	ADR		XA		
1LR342	ADR		XA		
1LR421	MOS		XA		
1LS271	ADR		XA		
1MA191			XA		
1N1	*TRI	TWN		1N3S=	
1N3S	TRI	TWN	II	1N1+, 1G6-GT$	
1ND041			XA		
1ND042			XA		
1ND043			XA		
1ND044			XA		
1P23	PND	SIN	II	CK507AX	
1P36	PND	SIN	II		
1P46	PND	SIN	II		
1P53	PND	SIN	II		
1P22B	PND	SIN	II		
1P24B	PND	SIN	II		
1P52B	PND	SIN	II		
1PP191			XA		
1S12P	TRI	SIN	II	DC96=	
1S38A	TRI	SIN	II		
1SV191	AMP		XA		
1T303A			X		
1T3036			X		
1T303D			X		
1T3036			X		
1T303V			X		
1T303YE			X		
1T308A			X		
1T3088			X		
1T3086			X		
1T308V			X		
1T403A			X		
1T4036			X		
1T403D			X		
1T4036			X		
1T4031			X		
1T403V			X		
1T403YE			X		
1T4032H			X		
1TK191			XA		
1TK251	MOS		XA		
1TK471	MOS		XA		
1TR061	ADR		XA		
1TR062	ADR		XA		
1TR063	ADR		XA		
1TR064	ADR		XA		

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TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
1TR131A	NOR		XA		
1TR131B	NOR		XA		
1TR131V	NOR		XA		
1TR141A	NOR		XA		
1TR141B	NOR		XA		
1TR421	MOS		XA		
1TS1	*DIO	SIN		1TS1S+, 1VD1+	
1TS1S	DIO	SIN	II	1TS1+, 1VD1+,1Z1$	
1TS7S	DIO	SIN	II	DY30=, 183/8016$	8359-66
1TS11P	DIO	SIN	II		
1TS20B	DIO	SIN	11		
1TS21P	DIO	SIN	II	1M2$	13849-68
1TSH191	SCH		XA		
1UB191	AMP		XA		
1UI461	AMP		XA		
1UI462	AMP		XA		
1US191	AMP		XA		
1US192	AMP		XA		
1US221A	AMP		XA		
1US221B	AMP		XA		
1US221V	AMP		XA		
1US222A	AMP		XA		
1US222B	AMP		XA		
1US222V	AMP		XA		
1US481	AMP		XA		
1UT191	AMP		XA		
1UT221A	AMP		XA		
1UT221B	AMP		XA		
1UT221G	AMP		XA		
1UT221V	AMP		XA		
1UT321	AMP		XA		
1UT401	AMP		XA		
1UYE191	AMP		XA		
1UYE201	MMP		XA		
1V3/8016	*DIO	SIN		1TS7S+, 183/8016$	
1VD1	*DIO	SIN		1TS1, 1TS1S+	
1VD2	*DIO	SIN		1TS7S+, 183/8016$	
1YE4A	TRI	SIN	II		
1ZH1ZH	PND	SIN	II		
1ZH2	*PND	SIN		1ZH2M+	
1ZH2M	PND	SIN	II	1ZH2*	
1ZH17B	PND	SIN	II		
1ZH18B	PND	SIN	II		
1ZH24B	PND	SIN	II		
1ZH26A	PND	SIN	II		
1ZH29B	PND	SIN	II		
1ZH30B	PND	SIN	II		
1ZH36B	PND	SIN	II		
1ZH37B	PND	SIN	II		
1ZH42A	PND	SIN	II		
AS-2	COU		XXI		
D2A	*REC		XI	DG-TS9*+	
D2B	*REC		XI	DG-TS10*+	
D2D	*REC		XI	DG-TS2*+	
D2G	*REC		XI	DG-TS1*+	
D2I	REC		XI		
D2K	REC		XI	DG-TS6*+	
D2M	REC		XI	DG-TS7*+	
D2N	REC		XI	DG-TS15*+	
D2P	REC		XI	DG-TS16*+	
D2R	REC		XI		
D2V	*REC		XI	DG-TS8+	
D2YE	*REC		XI	DG-TS4*+	
D2ZH	*REC		XI	DG-TS5*+	
DG-S2	MIX		XIV		
DG-TS2	REC		XI	D2D+	
DI-2-10	*DIO	SIN		2D1S+	
DK-I2	MIX		XIV		
DK-S2	MIX		XIV		
DK-V2	DET		XIV		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
DL-S2	MIX				
DSH2-10	*DIO	SIN		2D2S+	
F-2	PHO		XVI		
FD-2	PHC		XV		
FEU-2	PHM		XVI		
FEU-2B	PHM		XVI		
FEU-2B1V	PHM		XVI		
FEU-2M	PHM		XVI		
FEU-2V	PHM		XVI		
FS-2A	PHC		XV		
FS-B2	PHC		XV		
FS-K2	PHC		XV		
FSA-G2			XV		
FSK-G2			XV		
GE-2	TET	SIN	III	GKE-I50=	
GMI-2B	TET	SIN	III		
GS-2B	TRI	SIN	III		
GU-2	BEA	SIN	II		
GUZH-2	BEA	SIN		G807+, 807$	
GZH2	*PND	SIN		G413+	
I-2-50/1.5	TRI	IGN	IV		
IN-2	DEC		XXIII		
KF-2	BEA	TWN		GU-32+, 832-A$	
KS-2	TRI	SIN		GU-4+	
KZH-2	BEA	SIN		G-807+, 807$	
MTI-2	TRI	THY		TGI-200+	
OG-2	DEC		XXIII		
P2A			X		
P2B			X	OC821=	
PT-2	TRI	THY		TG-213*	
R-2			XXII		
R-2M			XXII		
RB-2			XXII		
S2A			X		
S2B			X		
S2G			X		
S2V			X		
SF2-1			XV		
SF-2-2			XV		
SF-2-4			XV		
SF-2-9			XV		
SF-2-12			XV		
SG2P	DIO	SIN	V	082$	13283-67
SG2S	DIO	SIN	V	0A3$	
SI-2B	COU		XXI		
SI-2BG	COU		XXI		
SK2-5.6/2000	REG		XIII		
SK2-6.8/2000	REG		XIII		
SK2-8.2/2000	REG		XIII		
SK2-10/1000	REG		XIII		
SK2-12/1000	REG		XIII		
SK2-15/1000	REG		XIII		
SK2-18/700	REG		XIII		
SK2-22/300	REG		XIII		
SK2-24/300	REG		XIII		
SK2-28/300	REG		XIII		
SK2-30/300	REG		XIII		
SK2-36/300	REG		XIII		
SK2-43/300	REG		XIII		
SK2-51/200	REG		XIII		
SK2-62/200	REG		XIII		
SK2-75/100	REG		XIII		
SK2-91/100	REG		XIII		
SK2-110/100	REG		XIII		
SK2-120/100	REG		XIII		
SK2-150/100	REG		XIII		
SK2-180/100	REG		XIII		
SK2-220/50	REG		XIII		
SK2-270/50	REG		XIII		
SK2-300/50	REG		XIII		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
ST-2-26			X1X		
ST2S	BAL	TWN	VI		
STS-2	COU		XXI		
STSV-2A	PHO			F-2+	
TG2-01/01	TRI	THY	VII	1050$	
TG2-0.5/12	TRI	THY	VII		
TG-2.5/5	TRI	THY	VII	VT-1	
TGI-2.5/3	TRI	THY		TG1-2.5/4*+	
TGI-2.5/10	TET		VII		
TGI-2-200/12	TRI	THY	VII		
TGI-2-32516	TRI	THY	VII		
TGI-2-40035	TRI	THY	VII		
TKH-2	TRI	THY	VII		
TKI-2	TMS	MEA	XIX		
TO-2	PND	SIN		10P12S+	
TP-2/0.5	REG		X1X		
TP-2/2	REG		XIX		
TSH-2	TMS	MEA	XIX		
TV-2	THM		XVIII		
TVB-2	THM		XVIII		
VD2	DIO	SIN		V1-2/40+	
VI-2-27/35	DIO	SIN	IV		
VI-2-70/32	DIO	SIN	IV		
VI-2-100/50	DIO	SIN	IV		
2A1	PTG	SIN	II	S0242*+ 2A1M	
2A1M	*PTG	SIN		S0242*+	
2A3	TRI	SIN		2S4S+, 2A3$	
2A201A			XIV		
2A202A			XIV		
2D1L	DWD	SIN	II		
2D1S	DIO	SIN	II	DI-2-10+	
2D2S	DIO	SIN	II	DSH2-10+	
2D3B	DIO	SIN	II		
2D3S	DIO	SIN	II		
2D7S	DIO	SIN	II		
2D9S	DIO	SIN	II		
2D21	TET	THY		TG3-0.1/1.3+, 2D21$	
2D503A	SI		XI		
2D503B	SI		XI		
2DA181	DET		XA		
2DS191	LIM		XA		
2E1	*TET	SIN	II		
2E2	*TET	SIN	II	UB155+	
2E2P	TET	TWN	II		
2F2M	TRI	SIN			
2FP201	FIL		XA		
2GF181	MVB		XA		
2GF182	MVB		XA		
2GF201	MVB		XA		
2GS191	OSC		XA		
2GS192	OSC		XA		
2GS193	OSC		XA		
2IU231			XA		
2IE111			XA		
2IE112			XA		
2IE231			XA		
2IL071			XA		
2IL072			XA		
2IL073			XA		
2IL231			XA		
2IR111			XA		
2IR112			XA		
2J55	MAG		IX		
2K1	*PND		II	2K1M+	
2K1M	*PND	SIN	II	2K1*, SB241*	
2K2	PND	SIN		2K2M*	
2K2M	*PND	SIN	II	1E5G$, 2K2*, S0241*	
2KU281	SWI		XA		
2KU282	SWI		XA		
2KH1	*DWD	SIN		2KH1L+	

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
2KH1L	DWD	SIN	II	2KH1*	
2KH2	*DIO	SIN		2VD8A+, 2TS2S+, 2X2$	
2KT281	SWI		XA		
2LB011	NND		XA		
2LB012	NOR		XA		
2LB013	NOR		XA		
2LB014	NND		XA		
2LB015	NND		XA		
2LB016	NOR		XA		
2LB017	NOR		XA		
2LB041	NOR		XA		
2LB042	NND		XA		
2LB051	NOR		XA		
2LB052	NOR		XA		
2LB053	NOR		XA		
2LB071	NOR		XA		
2LB072	NOR		XA		
2LB073	NOR		XA		
2LB074	NOR		XA		
2LB075	NOR		XA		
2LB076	NOR		XA		
2LB111	NND		XA		
2LB112	NND		XA		
2LB113	NND		XA		
2LB114	NND		XA		
2LB115	NND		XA		
2LB116	NND		XA		
2LB117	NND		XA		
2LB118	NND		XA		
2LB119	NND		XA		
2LB171	NND		XA		
2LB172	NND		XA		
2LB173	NND		XA		
2LB181			XA		
2LB211			XA		
2LB231	ORD		XA		
2LB1110	NOR		XA		
2LB1111	NOR		XA		
2LB1112	NOR		XA		
2LI041			XA		
2LL231			XA		
2LN021	NND		XA		
2LN022	NND		XA		
2LN051	NND		XA		
2LN052	NND		XA		
2LN111	NND		XA		
2LN112	NND		XA		
2LN113	NND		XA		
2LN114	NND		XA		
2LN115	NND		XA		
2LN116	NND		XA		
2LN151	NND		XA		
2LN181	INV		XA		
2LN182	INV		XA		
2LN183	INV		XA		
2LN211	NOR		XA		
2LP171	EXP		XA		
2LP172	EXP		XA		
2LP173	EXP		XA		
2LR171	ANR		XA		
2LR221	ANR		XA		
2LS011	ADR		XA		
2LS021	ADR		XA		
2LS022	ADR		XA		
2LS023	ADR		XA		
2LS024	ADR		XA		
2LS025	ADR		XA		
2LS026	ADR		XA		
2LS027	ADR		XA		
2LS028	ADR		XA		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
2L5151	ADR		XA		
2L5152	ADR		XA		
2L5211			XA		
2M5191			XA		
2M5192			XA		
2N0021			XA		
2N0022			XA		
2NE261			XA		
2NK041			XA		
2NK051			XA		
2NK281			XA		
2NS191A			XA		
2NS191B			XA		
2NT011			XA		
2NT012			XA		
2NT013			XA		
2NT171			XA		
2NT172			XA		
2NT173			XA		
2NT191			XA		
2N1	TRI	DUO	II	1J66T$, 2N1M*, SB243, S0243	
2N1M	*TRI	DUO		2N1+, SB243+, S0243+	
2P1	BEA	SIN	II	SB244+, S0244+	
2P1M	*BEA	SIN		2P1P+, SB244	
2P1P	BEA	SIN	II	DL94=, 2P1M, 3S4$	8005-66
2P2	*BEA	SIN	II	3S4$	
2P2P	BEA	SIN	II	DL92=, 3S4$	9947-66
2P5	BEA	SIN	II	SB258+, S0258+, 2P2M+	
2P5B	PND	SIN	II		
2P9	*BEA	SIN		2P9M+, 2P9S	
2P9M	*BEA	SIN	II	2P9+, 2P9S, 6AK7	
2P9S	BEA	SIN		2P9M+, 2P9	
2P19B	PND	SIN	II		
2P21S	BEA	SIN			
2P29	*PND	SIN		2P29L+	
2P29L	PND	SIN	II		
2P29P	PND	SIN	II		
2S1	TRI	SIN	II	UB152+	
2S2	TRI	SIN	II	UB240+	
2S3	*TRI	SIN		2S4S+, 2A3$	
2S3A	TRI	SIN			
2S3M	*TRI	SIN		2S2+	
2S4S	TRI	SIN	II	2A3$	
2S14B	TRI	SIN	II		
2S22	TRI	SIN		6S8S+, 2C22$	
2S49B	TRI	SIN	II		
2S-156A	REG	SI	XIII		
2S-168A	REG	SI	XIII		
2S920A(P)	REG	SI	XIII		
2S930A(P)	REG	SI	XIII		
2S950A(P)	REG	SI	XIII		
2S980A(P)	REG	SI	XIII		
2T301			X		
2T301A			X		
2T301B			X		
2T301D			X		
2T301G			X		
2T301V			X		
2T301YE			X		
2T301ZH			X		
2TK041			XA		
2TK171			XA		
2TK181			XA		
2TM-20	TRI	TWN	III		
2TM-100	TRI	TWN	III		
2TK071			XA		
2TK072			XA		
2TK073			XA		
2TK111	NOR		XA		
2TK112	NOR		XA		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
2TK113	NOR		XA		
2TK114	NOR		XA		
2TK115	NOR		XA		
2TK116	NOR		XA		
2TK171			XA		
2TK172			XA		
2TK211	FLP		XA		
2TK231			XA		
2T525	DIO	SIN	II	2X2$	8527-65
2U-101A	SCR		XII-A		
2U-101B	SCR		XII-A		
2U-101D	SCR		XII-A		
2U-101G	SCR		XII-A		
2U-101V	SCR		XII-A		
2U-101YE	SCR		XII-A		
2U1021	AMP		XA		
2U1071	AMP		XA		
2U1111	AMP		XA		
2U1151	AMP		XA		
2U1181	AMP		XA		
2U1182	AMP		XA		
2U1183	AMP		XA		
2US181	AMP		XA		
2US191A	AMP		XA		
2US191B	AMP		XA		
2US192	AMP		XA		
2US193	AMP		XA		
2US194	AMP		XA		
2US201	AMP		XA		
2US202			XA		
2US281	AMP		XA		
2US282	AMP		XA		
2US283	AMP		XA		
2US284	AMP		XA		
2US285	AMP		XA		
2UYE181	AMP		XA		
2V6	DIO	ARC	IV		
2V12	DIO	ARC	IV		
2V20	DIO	ARC	IV		
2V68	DIO	SIN	II		
2VW12	DIO	ARC	IV		
2VW20	DIO	ARC	IV		
2ZH1M	*PND	SIN	II	SB245+	
2ZH2B	PND	SIN			
2ZH2M	PND	SIN	II		
2ZH4	*PND	SIN	II	SB257+	
2ZH14B	PND	SIN	II		
2ZH15B	PND	SIN	II		
2ZH27	*PND	SIN		2ZH27L+	
2ZH27L	PND	SIN	II	2ZH27+	
2ZH27P	PND	SIN	II		
2ZH28L	PND	SIN	II		
D3A	DET		XIV		
D3B	DET		XIV		
DG-S3	MIX		XIV		
DG-T53	REC		XI		
DK-S3	MIX		XIV		
DK-V3	DET		XIV		
DL-S3	MIX				
EM-3	TET	SIN	II		
F-3	PHO		XVI		
FD-3	PHC		XV		
FEU-3B	PHM		XVI		
FEU-3M	PHM		XVI		
FEU-R3	PHM		XVI		
FS-3A	PHC		XV		
FS-K3	PHC		XV		
GI-3	TRI	SIN	III	2C26A$	
GI-3/100	TRI	SIN		GI-3+	
GK3A	TRI	SIN	III		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
GM3P	TRI	SIN	III		
GMI-3	TET	SIN	III		
GS-3B	TET	SIN	III		
GU-3	BEA	SIN	III		
GU2H-3	BEA	SIN		G1625+, 1625$	
KF-3	BEA	SIN		GU-13+, 813$	
KZH-3	BEA	SIN		G-1625+, 1625$	
LI-3	IC		VIII		
LIM-3	LAM		XAIV		
MS3	*TRI	SIN		GM57+, UB180=, M457+	
OG-3	DEC		XXIII		
P3A			X		
P3B			X		
P3V			X		
PIM-3	IC		VIII		
PT-3-	TRI	THY		TG-235*+	
R-3			XAII		
RB-3			XXII		
S3A			X		
S3B			X		
S3D			X		
S3G			X		
S3V			X		
S3Y2			X		
SBT-3	COU		XXI		
SF3-1			XV		
SF-3-B			XV		
SG3P	REG		V		
SG3S	DIO	SIN	V	OC3$	
SI-3B	COU			MST-18+	
SI-3BB	COU		XXI		
SNM-3	COU		XXI		
ST3P	DIO	SIN	VI		
ST3-17	TMS	MEA	XIX		
ST3-18			XIX		
ST3-19	TMS	MEA	XIX		
ST-3-21			XIX		
ST-3-22			XIX		
ST3-23	TMS	COM	XIX		
ST-3-24			XIX		
ST3-25	TMS	MEA	XIX		
ST-3-26			XIX		
STS-3	COU		XXI		
STSV-3	PHO		XVI		
TG3-0.1/1.5	TET	THY	VII	2D21$	13875-68
TG3-2.5/10	TRI	THY	VII		
TKH3B	TET	THY	VII		
TKI-3	TMS	MEA	XIX		
TO-3	PND	SIN		7ZH12S+	
TSG-3	PHO		XVI		
TSV-3	PHO		XVI		
TVB-3	THM		XVIII		
VDI-3D	DIO	SIN		VI-1-30/25+	
VT-3	TRI	THY		TRI-5/2*+	
3A4S	PND	SIN	II		
3B4S	BEA	SIN	II		
3E29	*BEA	TWN		G1-30+, 3E29$	
3I-301A	TUN		XI-B		
3I-301B	TUN		XI-B		
3I-301G	TUN		XI-B		
3I-301V	TUN		XI-B		
3J21	MAG		IX		
3LK1B	TV		VIII		
3LO1-1			VIII		
3S1	TRI	SIN	II	TO-141+	
3S2	TRI	SIN	II	TO-142+	
3S9	*TRI	SIN	II		
3TS16S	DIO		II	3A3$, 3B2$	
3TS16P	DIO	SIN	II		10372-67
3TS22S	DIO	SIN	II		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
3V30	DIO	ARC	IV		
3VM30	DIO	ARC	IV		
3VM60	DIO	ARC	IV		
3VM100	DIO	ARC	IV		
3VM1	*DS			8L029+, 3BP1A$	
DG-S4	MIX		XIV		
DG-TS4	REC		XI	D2YE*+	
DK-S4	MIX		XIV		
DK-V4	DET		XIV		
DL-S4	MIX				
EM-4	TRI	SIN	II	1E3P+	
F-4	PHO		XVI		
FEU-4	PHM		XVI		
FS-A4	PHC		XV		
FS-K4	PHC		XV		
GI-4A	TRI	SIN	II		
GKV-4	TRI	SIN		GU-4+	
GMI-4B	TET	SIN	III		
GS-4	TRI	SIN	III		
GS-4	COU		XXI		
GS-4B	TRI	SIN		G431A+	
GS4D	TRI	SIN	II		
GU4	TRI	SIN	III		
GU4A	TRI	SIN	III		
KMT-4	TMS		XIX		
KS-4	TRI	SIN		GU-150+	
LIM-4	LAM		XXIV		
LN-4	ST		VIII		
LP-4	COM		VII		
MMT-4	TMS		XIX		
MS-4	COU		XXI		
MSTR-4	COU		XXI		
MTI-4	TRI	THY		TG1-1-90/8+	
OG-4	DEC		XAIII		
P4			X	2N68$	
P4A			X		
P4B			X		
P4D			X		
P4G			X		
P4L			X		
P4V			X		
PIM-4	IC		VIII		
R-4			XXII		
S4A			X		
S4B			X		
S4G			X		
S4V			X		
SBS-4	COU		XXI		
SF-4-1	REG		XV		
SG4S	DIO	SIN	V	OD3$	
SI-4B	COU		XXI		
SI-4G	COU			VS-9T+	
ST-4-15	TMS		XIX		
STSV-4	PHO		XVI		
TGI-4	TRI	THY		TGI-1-130/10+	
TKH-4B	TET	THY	VII		
TO-4	PND	SIN		7P12S+	
TSG-4	PHO		XVI		
TSV-4	PHO		XVI		
TV-4	THM		XVIII		
TVB-4	THM		XVIII		
VDI-4D	DIO	SIN		VI-1-70/32+	
VS-4	COU		XXI		
4D2	*DIO	SIN		4TS6S+	
4D5S	*DIO	SIN	II		
4D17P	DIO	SIN	II		
4E1	*TET	SIN	II		
4E2	*TET	SIN	II		
4E3	*TET	SIN	II		
4F0S	BEA	SIN	II		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
4J26-30	MAG		IX		
4J45	MAG		IX		
4J50	MAG		IX		
4N1	TRI	DUO	II	SB259+, S0259+	
4P1	*PND	SIN	II		
4P1L	PND	SIN	II		
4P2	PND	SIN			
4P2L	PND	SIN			
4P10S	PND	SIN	II		
4S1	TRI	SIN	II	UB107+	
4S2	TRI	SIN	II	UB110+	
4S3	*TRI	SIN	II		
4S3S	TRI	SIN	II		
4S4	*TRI	SIN	II		
4S5	TRI	SIN	II	S0-165+	
4TS1M	*DIO	SIN		4TS6S+	
4TS6S	DIO	SIN	II		
4TS14S	DIO	SIN	II		
4V61	DIO	SIN	II		
4VKH1	*DIO	TWN	II	V0-188*+	
4VKH2	*DIO	SIN	II	V0-188*+	
4ZH1L	PND	SIN	II		
4ZH1P	PND	SIN	II		
4ZH4	PND	SIN		S0124+	
4ZH5	*TET	SIN	II	4ZH5S+	
4ZH5S	PND	SIN	II		
DG-TS5	REC		XI	D2ZH*+	
DK-S5	MIX		XIV		
DK-V5	DET		XIV		
EM-5	TET	DBA	II		
F-5	PHO		XVI		
FEU-5	PHM		XVI		
FEU-R5	PHM		XVI		
FS-K5	PHC		XV		
G-5	TRI	SIN		M39+	
G-5A	TRI	SIN		GU5A+	
G-5RA	TRI	SIN		GU-5B+	
GI-5B	TRI	SIN	III		
GK5A	TRI	SIN	III		
GMI-5	TET	SIN	III		
GP-5	TRI	SIN	II		
GS-5B	TRI	SIN		G433A+	
GSH-5	NOI		IX		
GU5A	TRI	SIN	III		12402-66
GU5B	TRI	SIN	III		12403-66
GU0-5	TRI	SIN		GI20+	
LP-5	COM		VII		
MMT-5	TMS	MEA	XIX		
MTI-5	*TRI	THY		TGI-1-32516+	
OG-5	DEC		XXIII		
P5A			X		
P5B			X	2N107$	
P5D			X	CK727$	
P5G			X	2N65$	
P5V			X		
P5Y6			X		
R-5			XXII		
RB-5			XXII		
RB-5A			XXII		
S6S-5	COU		XXI		
SG5B	DIO	SIN	V		
SG5B-V	REG		V		
SGS-5	COU		XXI		
SNM-5	COU		XXI		
STS-5	COU		XXI		
TKH-5A	TRI	THY	VII		
TKH-5B	TRI	THY	VII		
TV-5	THM		XVIII		
TVB-5	THM		XVIII		
UV-5	TWT		IX		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
VG-5	POW		XII		
5L61B	*OS			5L038+, 2API$	
5L6381	OS		VIII	2API$	
5SK1	*OS			5CP1A$	
5SK7	*OS			5CP7A$	
5TS3S	DWD	SIN	II	5U4G$	8360-66
5TS4	DIO	DUO		5TS4S+, 5Z4G$	
5TS4M	DIO	DUO	II	5Z4$	
5TS4S	DIO	DUO	II	5Z4$	8079-67
5TS8S	DWD	SIN	II		8361-66
5TS9S	DWD	SIN	II	1S02+	8362-66
5TS9SL	DWD	SIN	II		
5TS12P	DIO	SIN	II		
5VKH1	*DWD	SIN		5Z4G$	
5VKH2	*DWD	SIN	II	5U4G$	
5VKH3	*DWD	SIN	II	5Y3G$	
D6	REG		XIII		
DG-TS6	REC		XI	D2K+	
DK-V6	DET		XIV		
EM-6	TET	DBA	II		
F-6	PHO		XVI		
FS-A6	PHC		XV		
FS-D6	PHC		XV		
FS-K6	PHC		XV		
GI-6B	TRI	SIN	III	LD6	
GK6A	TRI	SIN	III		
GMI-6	BEA	TWN	III		
GS6	TRI	SIN	III		
GS-6	COU		XXI		
GSH-6	NOI		IX		
LD-6	TRI	SIN		GI-6B+	
LI-6	IC		VIII		
LP-6	COM		VII		
MMT-6	TMS		XIX		
MS-6	COU		XXI		
P6A			X		
P6B			X	0C821=	
P6D			X	0C812=	
P6G			X		
P6V			X	0C814=	
R6			XXII		
SG6S			II		
SGS-6	COU		XXI		
STS-6	COU		XXI		
STSV-6	PHO		XVI	F-4+	
TKH-6G	HEXT		VII		
TP-6/2	REG		XIX		
TRI-6/3			VII		
TSV-6	PHO		XVI	F-5+	
TVB-6	THM		XVIII		
UV-6	TWT		IX		
VS-6	COU		XXI		
6A1B	*PTG	SIN		6SA7$	
6A2P	PTG	SIN	II	6BE6$, EK90=	8354-66
6A3P	*GTB	SIN	II	6BN6$	
6A4P	PTG	DBA	II		
6A5B	*PTG	SIN		6L7$	
6A6A	*DIO				
6A7	PTG	SIN	II	6SA7$	8086-67
6A8	PTG	SIN	II	6A8B+, 6A8$	8367-67
6A8B	*PTG	SIN		6A8$	
6A8M	*PTG	SIN		6A8S*+	
6A10S	PTG	SIN	II	6SA7$	8087-56
6A15B	*PTG	SIN		6SA7$	
6AG7	*BEA	SIN		6P9+, 6AG7$	
6AZH5	*PND	SIN		6AG5$ EF96=	
6B1P	PND	DIO	II		
6B2P	PND	DIO	II	LI00*+	
6B4	*TRI	SIN		6A3$	
6B8	PND	DWD	II		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
6B8M	*PND	DWD		6B8S+, 6B8G$	
6B8S	PND	DWD	II	6B8G$, 6B8M*	8369-57
6BKHI	*DIO	DUO		6KH5S+	
6D1A	*DIO	SIN		6D6A*, 5704$	
6D1ZH	*DIO	SIN		6D4ZH*, 9004$	
6D3D	DIO	SIN	II	559$	
6D4ZH	DIO	SIN	II	9004$	
6D6A	DIO	SIN	II	5704$,*6D1A+	
6D8D	DIO	SIN	II		
6D10D	DIO		II		
6D13D	DIO	SIN	II		
6D14P	DIO	SIN	II	6B3$	
6D15D	DIO	SIN	II		
6D16D	DIO	SIN	II		
6D20P	DIO	SIN	II	EY88=,6AL3$	13848-68
6D22S	DIO	SIN	II		
6E5P	TET	SIN	II		
6E6P	TET	SIN	II		
6E6P-YE	BEA	SIN	II	E7119+	
6E7P	TET	SIN	II		
6E12N	TET	SIN	II	7587$	
6F1P	PND	TRI	II	EF80=,6U8$	12399-66
6F3P	TRI	PND	II	6BM8$	13394-67
6F4P	PND	TRI	II	6DX8$	
6F5	TRI	SIN		6S4B+, 6F5$	
6F5B	TRI	SIN		6S4B+, 6F5$	
6F5M	*TRI	SIN	II	6F5GT$, 6S4+	8372-57
6F6P	TRI	PND	II	6GV8$	
6F6S	TRI	SIN	II		
6F6	PND	SIN		6P6B+, 6F6$	
6F6M1	PND	SIN	II		
6F6S	PND	SIN	II	6F6-GT$	8082-67
6F7	PND	TRI	II		
6F12P	PND	TRI	II		
6G1	TRI	DWD	II		
6G2	TRI	DWD	II	6SQ7$	8370-65
6G2P-K	TRI	DWD	II		
6G2S	*TRI	DWD		6SQ7G$	
6G3P	TRD	TRI	II		
6G3S	*TRI	DWD		6AK5$	
6G7	TRI	DWD	II	6Q7=	8371-65
6I1P	PTG	TRI	II	ECH81=, 6AJ8$	9948-66
6I3P	PTG	TRI	II		
6I14P	PTG	TRI	II	ECH81=,6I1P+	
6K1B	PND	SIN	II	5702$	
6K1L	PND	SIN	II		
6K1P	PND	SIN	II	9003$	
6K1ZH	PND	SIN	II	956$	
6K2P	*PND	SIN		6K4P+	
6K3	PND	SIN	II	6SK7$	8084-67
6K4	PND	SIN	II	6SG7$	8083-67
6K4P	PND	SIN	II	EF93=, 6BA6$	8352-66
6K4P-E	DWD	SIN		6K4P	
6K6A	PND	SIN	II		
6K7	PND	SIN	II	6K7S*, 6K7G$, 6K9S+	8363-66
6K7S	*PND	SIN		6K9S+, 6K7G$, 6K7	
6K8B	PND	SIN	II		
6K8P	PND	SIN	II	6ES6$	
6K9S	PND	SIN	II	6K7G$, 6SK7$	
6K11B-K	PND	SIN	II	6K1B+	
6K12	*PND	SIN		6EH7$	
6K13P	PND	SIN	II		
6K14B	PND	SIN	II		
6K14B-V	PND	SIN	II		
6K15B	*PND	SIN		6A87$	
6K17B	*PND	SIN		6SK7$	
6K19B	*PND	SIN		9003$	
6K19P	*PND	SIN		6K1P+, 9003$	
6KM1ZH	*DIO	SIN		6D4ZH+, 9004$	
6KM2P	DIO	TWN	II	EAA91=,6AL5$	8348-66

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
6KM2P-E	DIO	TWN		6KH2P,E7099+,5726$	
6KM4P	DWD	SIN		6TS4P+	
6KM5	DWD	SIN		6VKH1+, 6X5GT$	
6KM5S	DWD	SIN		6VKH1+, 6X5GT$	
6KM6	DIO	TWN		6KH6B+, 6H6$	
6KM6B	DIO	TWN	II	6H6-G$	
6KM6M	DIO	TWN		6KH6S+, 6H6G$	
6KM6S	DIO	TWN	II	6H6-G$	8080-67
6KM7B	DIO	TWN	II		
6L1P	HPT	SIN	II		
6L7	PTG	SIN	II	6L7$	
6LK1A	ELM		VIII		
6LK1B	ELM		VIII		
6LO1I	ELS		VIII		
6N1P	TRI	TWN	II	6BK7$	8355-66
6N1P-E	TRI	TWN		6N1P,E7100+	
6N2P	TRI	TWN	II	ECC83=, 6AX7$	8356-66
6N2P-E	TRI	TWN		6N2P,E7101+	
6N3P	TRI	TWN	II	ECH42=, 2C51$	8357-66
6N3P-E	TRI	TWN		6N3P,E7102+,5670$	
6N4P	TRI	TWN	II	12AY7$	
6N5P	TRI	TWN	II		13892-68
6N5S	TRI	TWN	II	6AS7G$	
6N6	DIO	TWN		6KH6B+, 6H6$	
6N6P	TRI	TWN	II		
6N7	TRI	TWN	II	6N7$, 6N7S+	
6N7S	TRI	TWN	II	6N7-GT$	8374-66
6N8	TRI	TWN		6N8S+, 6SN7GT$	
6N8M	TRI	TWN		6N8S+, 6SN7GT$	
6N8S	TRI	TWN	II	6SN7-GT$	
6N9	TRI	TWN		6N9S+, 6SL7GT$	
6N9M	TRI	TWN		6N9S+, 6SL7GT$	
6N9S	TRI	TWN	II	6SL7GT$	
6N10	TRI	TWN		6N10S+, 6SC7GT$	
6N10M	TRI	TWN		6N10S+, 6SC7GT$	
6N10S	TRI	TWN	II	6SC7GT$	
6N11	TRI	TWN		6N5S+, 6AS7G$	
6N12S	TRI	TWN	II	6DN7$, 5687$	
6N13S	TRI	TWN	II	6080$, 6AS7$	8378-66
6N14P	TRI	TWN	II	ECC84=,6CW7$	10880- 66
6N15	*TRI	TWN	II	6J6$, 6N15P+	
6N15P	TRI	TWN	II	6J6$, ECC91=	
6N16B	TRI	TWN	II		
6N17B	TRI	TWN	II		
6N18B	TRI	TWN	II		
6N19P	TTR	DWD	II		
6N21B	TRI	TWN	II		
6N23P	TRI	TWN	II	ECC88=,6DJ8$	
6N24P	TRI	DUO	II	ECC89=,6FC7$	
6N25G	TET	TWN	II		
6N26P	TRI	TWN	II		
6N27P	TRI	TWN	II	ECC86=,6GM8$	
6N28B	TRI	TWN	II		
6N28B-V	TRI	TWN	II		
6P1P	BEA	SIN	II	EL90=, 6AQ5$	8358-66
6P2	BEA	SIN		6P6S+, 6V6GT$	
6P2P	PND	SIN	II		
6P3	BEA	SIN		6P3S+, 6L6G$	
6P3B	BEA	SIN		6P3S+, 6L6G$	
6P3S	BEA	SIN	II	6L6G$	8376-66
6P3S-YE	BEA	SIN		6P3S,E7121+	
6P4	*PND	SIN	II	6G6G$	
6P6	BEA	SIN		6P6S+, 6V6GT$	
6P6B	*PND	SIN	II	6F6$	
6P6P	*BEA	SIN			
6P6S	BEA	SIN	II	6V6-GT$	8375-66
6P7	*BEA	SIN		6P7S*+, 6BG6GA$	
6P7S	BEA	SIN	II	6P7*+, 6BG6GA$	
6P8P	TRI	SIN		6S1P+, 9002$	
6P8S	*PND	SIN	II	6G6G$	

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
6P9	BEA	SIN	II	6AG7$	8377-57
6P9E	BEA	SIN	II	6AK7$	
6P13S	BEA	SIN	II		
6P14P	BEA	SIN	II	EL84=, 6B05$	10066-66
6P15P	BEA	SIN	II		10879-66
6P17S	BEA	SIN	II		
6P18P	BEA	SIN	II	6BQ6$, EL82	
6P20S	*BEA	SIN	II	6CB5$, 6CD6$	
6P21S	*BEA	SIN	II		
6P23S	BEA	SIN	II		
6P25B	PND	SIN	II		
6P27S	BEA	SIN	II	6CA7$	
6P30B	PND	SIN	II		
6P31S	BEA	SIN	II		
6P33P	PND	SIN	II	6CW5$	
6P34S	PND	SIN	II		
6P36S	BEA	SIN	II	6GB5$	13883-68
6P37N	PND	SIN	II		
6P42S	BEA	SIN	II		
6R1B	TRI	DWD		6G1+, 6SR7$	
6R2P	BEA	DUO	II		
6R3S	BEA	DUO	II		
6R7	TRI	DWD		6G7+, 6Q7$	
6R7B	TRI	DWD		6G7+, 6Q7$	
6R17B	TRI	DWD		6G2+, 6SQ7$	
6S1B	TRI	SIN		6S6B+, 5703$	
6S1P	TRI	SIN	II	9002$	
6S1ZH	TRI	SIN	II	4671$, 955$	
6S2	TRI	SIN		6J5-GT$	
6S2B	TRI	SIN	II	6S7B+, 5744$	
6S2P	TRI	SIN	II	6J4$	8353-67
6S2S	TRI	SIN	II	6J5-GT$	8081-67
6S3B	TRI	SIN	II	6K4A$	
6S3P	TRI	SIN	II		
6S4	*TRI	SIN		6F5$	
6S4B	TRI	SIN	II	6F5$	
6S4P	TRI	SIN	II	6B4$	
6S4S	TRI	SIN	II	6B4-G$	8373-66
6S5	TRI	SIN	II	6S5S+, 6C5GT$, 6J5GT$	
6S5B	TRI	SIN		6C5-GT$	
6S5D	TRI	SIN	II	TM1*+, 2C40$	
6S5S	TRI	SIN	II	6C5-GT$, 6J5GT, 6S5$	8368-57
6S6B	TRI	SIN	II	5703$	
6S7B	TRI	SIN	II	5744$	
6S9P	TRI	SIN		6S1P+, 9002$	
6S6S	TRI	SIN	II	2C22$	
6S9D	TRI	SIN	II		
6S10D	TRI	SIN	II		
6S11D	TRI	SIN	II		
6S13D	TRI	SIN	II		
6S15P	TRI	SIN	II		
6S16D	TRI	SIN	II		
6S17K	TRI	SIN	II		
6S18S	TRI	SIN	II		
6S19P	TRI	SIN	II		12841-67
6S20S	TRI	SIN	II	6BD4$	
6S21D	*TRI	SIN	II		
6S25B	TRI	SIN	II		
6S26B	TRI	SIN	II	6S6B+	
6S27B	TRI	SIN	II	6S7B+	
6S28B-V	TRI	SIN	II		
6S29B-V	TRI	SIN	II		
6S30B	TRI	SIN	II		
6S31B	TRI	SIN	II		
6S32B	TRI	SIN	II		
6S33S	TRI	SIN	II		
6S34A-V	TRI	SIN	II		
6S35A-V	TRI	SIN	II		
6S36K	TRI	SIN	II		
6S37B	TRI	SIN	II		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
6S39S	TRI	SIN	II		
6S40P	TRI	SIN	II		
6S41S	TRI	SIN	II		
6S44D	TRI	SIN	II		
6S45K	TRI	SIN	II		
6S45P-YE	TRI	SIN	II		
6S46G	TRI	SIN	II		
6S47S	TRI	SIN	II		
6S48D	TRI	SIN	II		
6S50D	TRI	SIN	II		
6S51N	TRI	SIN	II	7586$	
6S52N	TRI	SIN	II	7895$	
6S53N	TRI	SIN	II	8058$	
6SK7	PND	TRI	II		
6T54P	DWD	SIN	II	6X4$	8347-66
6T54S	DIO	SIN	II		
6T55S	DWD	SIN	II	6X5GT$	8528-66
6T510P	DIO	SIN	II	6B3$	
6T513P	DIO	SIN	II		
6T515S	DIO	TWN	II		
6T517S	DIO	SIN	II	6BL4	
6T519P	DIO	SIN	II		
6V1P	PND	SIN	II		
6V2P	PND	SIN	II		
6V3S	PND	SIN	II		
6VAH1	DWD	SIN	II		
6YE1P	TRI	SIN	II	EM80=, 6BR5$	10881-66
6YE2P	TRI	SIN	II		
6YE3P	TRI	SIN	II		
6YE5	*TRI	SIN		6YE5S+	
6YE5S	TRI	SIN	II	6YE5*, 6E5$	8379-66
6ZH1B	PND	SIN	II	5702$	
6ZH1L	PND	SIN	II		
6ZH1P	PND	SIN	II	6AK5$, EF95=	8349-66
6ZH1P-E	PND	SIN		6ZH1P, E7112+, 5654$	
6ZH1ZH	PND	SIN	II	954$	
6ZH2B	PND	SIN	II	5784$, 5639$	
6ZH2M	PND	SIN	II	1851$	
6ZH2P	PND	SIN	II	6ZH2P-E, E7113+, 6AS6$	11317-65
6ZH2P-E	PND	SIN		6ZH2P, E7113+, 5725$	
6ZH3	PND	SIN	II	6SH7$	8085-67
6ZH3M	*PND	SIN	II	6AB7/1853$	
6ZH3P	PND	SIN	II	6AG5$, EF96=	8350-66
6ZH4	PND	SIN	II	6AC7$, 6AB7$	8364-66
6ZH4B	*PND	SIN		6AG7$	
6ZH4E	PND	SIN	II	6AB7$, 6AC7$	
6ZH4P	PND	SIN	II	6AU6$, EF94=	12398-66
6ZH5	*TRI	SIN		6J5$	
6ZH5A	*PND	SIN	II		
6ZH5B	PND	SIN	II		
6ZH5P	BEA	SIN	II	6AH6$	8351-66
6ZH6M	*PND	SIN		6J7$	
6ZH6P	*PND	SIN		6J7$	
6ZH6S	PND	SIN	II	Z62=	
6ZH7	PND	SIN	II	6J7	8365-66
6ZH7B	*PND	SIN		6W7G$	
6ZH8	PND	SIN	II	6SJ7$	8366-67
6ZH8S	PND	SIN	II		
6ZH9B	PND	SIN	II		
6ZH9G	PND	SIN	II		
6ZH9P	PND	SIN	II	E180F=, 6688$	11702-66
6ZH9P-E	PND	SIN		6ZH9P, E7114+	
6ZH10B	PND	SIN	II		
6ZH10P	PND	SIN	II		12842-67
6ZH11B	*PND	SIN		6SH7$	
6ZH11P	PND	SIN	II	6805$	
6ZH11P-E	PND	SIN		6ZH11P+, E7115+	
6ZH12B	*PND	SIN		6SG7$	
6ZH13	PND	SIN		6ZH13L+	
6ZH13L	PND	SIN	II	6ZH13	

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
6ZH20P	BEA	DIO	II		
6ZH21P	BEA	DIO	II		
6ZH22P	DIO	BEA	II		
6ZH23P	PND		II		
6ZH31BK	PND	SIN	II	EF95=	
6ZH32B	PND	SIN	II		
6ZH32P	PND	SIN	II		14072-68
6ZH33AV	PND	SIN	II		
6ZH35BV	PND	SIN	II		
6ZH38P	PND	SIN	II		
6ZH396-V	PND	SIN	II		
6ZH40P	PND	SIN	II	6ET6$	
6ZH43P	PND	SIN	II		
6ZH44P	PND	SCG	II		
6ZH45BV	PND	SIN	II		
6ZH468YE	PND	SIN	II		
6ZH49P-B	PND	SIN	II		
6ZH52P	PND	SIN	II		
6ZH53P	PND	SIN	II		
D7	REG		XIII		
D7A	REC		XI	DG-TS21*+	
D7B	REC		XI	DG-TS22*+	
D7D	REC		XI	DG-TS25*+	
D7G	REC		XI	DG-TS24*+	
D7V	REC		XI	DG-TS23*+	
D7YE	REC		XI	DGTS26	
D7ZH	REC		XI	DG-TS27*+	
DG-TS7	REC		X1	D2M+	
DK-S7	MIX		XIV		
DK-S7M	MIX		XIV		
DK-V7	DET		XIV		
EM-7	TRI	SIN	II		
F-7	PHO		XV1		
FS-K7	PHC		XV		
FSK-7A			XV		
FSK-7B			XV		
FSK-G7			XV		
GI-7B	TRI	SIN	III	LD7	
GMI-7	TET	SIN	III		
GS-7	COU		XXI		
GS-7	TRI	SIN		GK-3000+	
GS-7A	TRI	SIN	III		
GS-7B	TRI	SIN	III		
KS-7	TRI	SIN		G-81I+, 811-A$	
LD-7	TRI	SIN		GI-7B+	
LI-7	IC		VIII		
LN-7	ST		V111		
LP-7	COM		V11		
MS-7	COU		XXI		
P7			X		
R-7			XXII		
SAT-7	COU		XXI		
SBM-7	COU		XXI		
SBT-7	COU		XXI		
SG7S	DIO	SIN	V		
SNM-7	COU		XXI		
TKH-7G			VII		
TVB-7	THM		XVIII		
UV-7	TWT		IX		
7LD1M	OS		VIII		
7LD55I	OS		VIII	3MP1$	
7P12S	PND	SIN	II		
7ZH12S	PND	SIN	II	328A$	
D8	REG		XIII		
DG-TS8	REC		XI	D2V+	
DK-V8	VID	SI	XIV		
EM-8	PND	SIN	11		
F-8	PHO		XVI		
FS-K8	PHC		XV		
GI-8	PND	SIN	III		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR-TYPES	COST SPEC. NO.
GS-8	COU		XXI		
GS-8B	TET	SIN	III		
GU8	TRI	SIN	III		7711-55
KMT-8	TMS		XIX		
LN-8	ST		V111		
MMT-8	TMS		XIX		
MS-8	COU		XXI		
P8			X		
P8A			X		
R-8			XXII		
SAT-8	COU		XXI		
SBM-8	COU		XXI		
SBT-8	COU		XXI		
SG8S	DIO	SIN	V		
SNM-8	COU		XXI		
STS-8	COU		XXI		
T8D	TMS		XIX		
T8E	TMS		XIX		
T8M	TMS		XIX		
T8R	TMS		XIX		
T8S1	TMS		XIX		
T8S1M	TMS		XIX		
T8S2	TMS		XIX		
T8S2M	TMS		XIX		
T8S3	TMS		XIX		
T8S3M	TMS		XIX		
TG8/3	TRI	TRY		TG1-2.5/4+	
TKH-8G	HEX		VII		
TVB-8	THM		XVIII		
VS-8	COU		XXI		
8LK2B	TV		V111		
8LM3V	OS		VIII		
8LO2B	OS			8LO29+, 3BP1A$	
8LO3I	OS		VIII		
8LO4I	OS		V111		
8LO29I	OS		VIII	3BP1$	
8LO29M	OS		VIII		
8LO30I	OS		VIII	3DP1$	
8LO30M	OS		VIII		
8LO39V	OS		VIII	3JP7$	
D9A	REC		XI		
D9B	REC		XI		
D9D	REC		XI		
D9G	REC		XI		
D9I	REC		XI		
D9K	REC		XI		
D9L	REC		XI		
D9M	REC		XI		
D9V	REC		XI		
D9YE	REC		XI		
D9ZH	REC		XI		
DG-TS9	REC		XI	D2A+	
F-9	PHO		XV1		
G-9	TRI	SIN		GU65+	
GK9P	TRI	SIN	1I1		
GS-9	COU		XXI		
GS9B	TRI	SIN	III		
LD-9	TRI	SIN		GS-9B+	
MMT-9	TMS		XIX		
MS-9	COU		XXI		
P9			X	2N35$	
P9A			X		
R-9			XXII		
SBT-9	COU		XXI		
SG9S	DIO	SIN	V		
SI-9BB	COU		XXI		
SNM-9	COU		XXI		
T9	TMS		XIX		
TKH-9G			VII		
TVB-9	THM		XVIII		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
VS-9	COU		XXI		
VS-9T	COU		XXI		
9L0II	OD		VIII		
D10	REC		XI		
D10A	REC		XI		
D10B	REC		XI		
DGTS10	REC		XI	D2B+	
F-10	PHO		XVI		
G10	TRI	SIN	III		
G-10A	TRI	SIN		GU-10A+	
G-10KA	TRI	SIN		GU-10B+	
GK10P	TRI	SIN	111		
GKU-10	TRI	SIN		GK-2000+	
GS-10	COU		XXI		
GSH-10	NOI		IX		
GT-10	TRI	SIN		G46+	
GU10A	TRI	SIN	III		12843-67
GU10B	TRI	SIN	III		
ISK10			XX		
ISP10			XX		
IST10			XX		
KMT-10	TMS		XIX		
MO-10	TRI	SIN	III		
P10			X	2N35$	
P10A	GAP		X		
P10B	GAP		X		
R-10			XXII		
SBT-10	COU		XXI		
SG10S	REG		V		
SI-10BG	COU		XXI		
TO-10	PND	SIN		10P12S	
VG-10	POW		XII		
VG-10-30	POW		XII		
VG-10-45	POW		XII		
VG-10-55	POW		XII		
VG-10-60	POW		XII		
VG-10-110	POW		XII		
VG-10-150	POW		XII		
VK-10	POW		XII		
VKU-10-0.25	SCR	SI4	XII-A		
VKU-10-0.5	SCR	SI4	XII-A		
VKU-10-0.75	SCR	SI4	XII-A		
VKU-10-1.0	SCR	SI4	XII-A		
VKU-10-1.5	SCR	SI4	XII-A		
VKU-10-2.0	SCR	SI4	XII-A		
VKU-10-2.5	SCR	SI4	XII-A		
VKU-10-3.0	SCR	SI4	XII-A		
10LK2B	PR		VIII		
10LK3B	TV		VIII		
10L02I	OD		VIII		
10L043I	OD		VIII		
10P12S	PND	SIN	II		
10ZH1L	PND	SIN	II	10ZH3L+	
10ZH3L	PND	SIN	II	10ZH1L+	
10ZH3P	PND	SIN			
10ZH12S	PND	SIN	II	310A$	
D11	REC		XI		
DK-V11	VID	SI	XIV		
FEU-11	PHM		XVI		
GI-11B	TRI	SIN	III	LD-11	
GS-11	COU		XXI		
GSH-11	NOI		IX		
GU11A	TRI	SIN	III		
GU11B	TRI	SIN	III		
KMT-11	TMS		XIX		
LD11	TRI	SIN		GI-11B+	
MS-11	COU		XXI		
P11			X	2N94$	
P11A	GAP		X		
R-11			XXII		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
SI-11BG	COU		XXI		
TKH-11G	TET		VII		
VS-11	COU		XXI		
11LK1B			VIII		
11LM2G	OT		VIII		
11LM3G	OT		VIII		
D12	REC		XI		
D12A	REC		XI		
DGTS12	REC		XI		
FEU-12	PHM		XVI		
GI-12B	TRI	SIN	III	LD-12	
GS-12	COU		XXI		
GU12A	TRI	SIN	III	880$	
K-12	KLO		IX		
KIU12	KLA		IX		
KMT-12	TMS		XIX		
LD12	TRI	SIN		GI-12B$	
MI-12	MAG		IX		
MMT-12	TMS		XIX		
MS-12	COU		XXI		
OS12/500	*PND	SIN		G837=	
P12			X	2N112$	
P12A	GAP		X		
R-12			XXII		
SI-12BG	COU		XXI		
TKH-12G			VII		
12B1M	PND	DWD	II		
12B2M	PND	DWD	II		
12G1	TRI	DWD	II	12SK7$	
12G2	TRI	DWD	II	12SQ7$	
12K1M	PND	SIN	II		
12K3	PND	SIN	II	12SK7$	
12K4	PND	SIN		12SG7$	
12K12B	*PND	SIN		12SG7$	
12K17B	*PND	SIN		12SK7$	
12KH3S	DWD	SIN	II	LG1	
12M1M	PND	TRI	II		
12N1	TRI	TWN		I2N11S+, 12AH7GT$	
I2N4P	TRI	TWN	II	12AY7$	
12N10	TRI	TWN		12N10S+, 12SC7GT$	
12N10M	TRI	TWN		12N10S+, I2SC7GT$	
12N10S	TRI	DUO	II	12SC7$	
12N11S	TRI	TWN	II	I2AH7GT$	
12P4S	PND	SIN	II	12A6$	
12P14S	BEA	SIN	II		
12P17L	PND	SIN	II		
12R1B	TRI	DWD		12G1+, 12SR7$	
12R17B	TRI	DWD		12G2+, 12SQ7$	
12S2	*TRI	SIN	II		
12S3S	*TRI	SIN	II	LD1+	
12S42S	TRI	SIN	II		
12ZH1	*PND	SIN		12ZH1L+	
12ZH1L	PND	SIN	II	12ZH1	
12ZH1M	PND	SIN	II		
12ZH3L	PND	SIN	II		
12ZH8	PND	SIN	II	12SJ7$	
12ZH8B	*PND	SIN		12SJ7$	
12ZH17B	*PND	SIN		12SJ7$	
D13	REC		XI		
DGTS13	REC		XI		
FEU-13	PHM		XVI		
G-13	TRI	SIN	III		
GI-13	TRI	SIN	III		
GI-13B	TRI	SIN	III		
GM13	TET	SIN	III		
GU13	BEA	SIN	III	813$	
LI-13	IM		VIII		
MMT-13			XIX		
MS-13	COU		XXI		
P13			X	2N43$	

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	GOST SPEC. NO.
P13A			X	2N34$	
P13B			X		
SG13P	DIO	SIN	V	OA2$	
SI-13G	COU		XXI		
TKH-13G			VII		
UV-13	TWT		IX		
V13/30	*DIO	SIN		V1-0	
VS-13	COU		XXI		
13LK1B	TV		VIII	5FP4$	
13LK2B	TV		VIII		
13LK3B	TV		V111		
13LK6B	TV		V111		
13LK78	TV		V111		
13LK8A	PT		V111		
13LM4V	OS		VIII		
13LM6V	RA		V111		
13LM7V	RA		V111		
13LM31M	OS		VIII	5FP7$	
13LM31V	OS		VIII		
13LM56I	OS		VIII	5FP1$	
13LM57	OS		VIII	5FP7$	
13LM57D	OS		VIII		
13LM58K	OS		VIII		
13LN2	ST		V111		
13LO1B	*		VIII		
13LO2B	*		VIII	5CP1-A*$	
13LO3I	OS		VIII		
13LO4I	OS		VIII		
13LO5P	*		VIII	5CP7-A$	
13LO6P	*		VIII	5FP7-A$	
13LO7V	OD		V111		
13LO9I	OS		V111		
13LO36	OS		VIII	5FP7$, LO736+	
13LO36V	OS		VIII		
13LO37A	OS		VIII	5CP7$	
13LO37I	OS			5CP1$, LO737+	
13LO37M	OS				
13LO48A	OD		VIII	LO748+	
13LO48I	OD			5SP1$	
13LO48M	OD				
13LO54A	OS		VIII	LO754	
13LO54M	OS				
13LO54V	OS				
13LO101M					
13LO102M			VIII		
13LO104A	TV		VIII		
13P1	*BEA	SIN		13P1M+, 13P1S+	
13P1M	BEA	SIN		13P1+, 13P1S+	
13P1S	BEA	SIN	II	13P1+, 13P1M+	
13ZH41S	PND	SIN			
D14	REC		XI		
D14A	REC		XI		
DGTS14	REC		XI		
FEU-14	PHM		XVI		
GI-14B	TRI	SIN	III	LO-14	
KMT-14			XIX		
LI-14	IM		VIII		
MI-14	MAG		IX		
MS-14	COU		XXI		
P14			X	2N65$	
P14A			X		
P14B			X		
SG14P	REG	AH	V		
TV-14	THM		XVIII		
UV-14	TWT		IX		
VS-14	COU		XXI		
D15	REC		XI		
DGTS15	REC		XI	D2N+	
FEU-15	PHM		XVI		
G-15A	TRI	SIN		GU-11A+	

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	GOST SPEC. NO.
G-15RA	TRI	SIN		GU-16B+	
GDO-15	TRI	SIN		G-61+	
GS-15B	TET	SIN	III		
GU15	BEA	SIN	III		
IFK15-1			XX		
ISSH15			XX		
K-15	KLO		IX		
KIU15	KLA		IX		
LI-15	IM		VIII		
MI-15	MAG		IX		
P15			X	2N43$, OC604=	
P15A	GAP		X		
SG15P	DIO	SIN	V		
SG15P1	DIO	SIN	V		
TG-15/3	TRI	THY		TG1-5/3+	
TR-15/2	TRI	THY		TR-1-5/2+	
TV-15	THM		XVIII		
VG15/5000	DIO	SIN		GG1-0.5/5+	
15A6S	PND	SIN	II		
D16	REC		XI		
D16A	REC		XI		
DGTS16	REC		XI	D2P+	
FEU-16	PHM		XVI		
GI-16B	TET	SIN	III		
GU16B	TRI	SIN	III		
LO-16	DIO	SIN		2D2S+	
MI-16	MAG		IX		
MS-16	COU		XXI		
P16			X	2N55$, OC604=	
P16A			X		
P16B			X		
SG16P	DIO	SIN	V	OC2$	
TV-16	THM		XVIII		
VS-16	COU		XXI		
16LK1B			VIII		
16LM1G	RA		V111		
16LO2I	OD		V111		
16LO3I	OS		V111		
D17	REC		XI		
DGTS17	REC		XI		
FEU-17	PHM		XVI		
FEU-17A	PHM		XVI		
G-17B	TRI	SIN	III		
GI-17	TRI	SIN	III	G480*	
GU-17	BEA	TWN	III	6360$	
LI-17	IM		VIII		
MST-17	COU		XXI		
P17			X		
P17A			X		
P17B			X		
SG17S	DIO	SIN	V		
D18	GEP		XI		
FEU-18	PHM		XVI		
FEU-18A	PHM		XVI		
GI-18B	TRI	SIN	III		
GS-18	TRI	SIN		GK-2000+	
GU-18	BEA	TWN	III		
LI-18	VI		VIII		
MST-18	COU		XXI		
P18			X		
P18A			X		
P18B			X		
R-18			XXII		
SG18S	DIO	SIN	V		
18LK1B	TV		VIII		
18LK2B	TV		VIII	7QP4$	
18LK3V	*		VIII		
18LK4B	TV		VIII		
18LK5B	TV		VIII		
18LK7B	TV		VIII		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
18LK9A	PT		VIII		
18LK11B	TV		VIII		
18LK12B	TV		VIII		
18LK13L	TV		VIII		
18LK14T	ELS		VIII		
18LK15	TV		VIII		
18LM3S	RA		VIII		
18LM35	OS		VIII	7BP7A$	
18LM35V	OS		VIII	7BP7$	
18LU1A	*		VIII		
18LU1P	*			7BP7A$	
18LU40B	TV		VIII	7JP4$, LK740+	
18LU47A	OD		VIII		
18LU47V	OD		VIII		
D19	GEP		XI		
D19A	GEP		XI		
D19B	GEP		XI		
FEU-19M	PHM		XVI		
GI-19B	TRI	SIN	III		
GU-19_	BEA	TWN	III		
P19			X		
SG19S	DIO	SIN	V		
SI-19G	COU		XXI		
19LK4B	TV		VIII		
D20	GEP		XI		
FEU-20	PHM		XVI		
GK20	TRI	SIN	III		
I-20/1.5	TRI	IGN	IV		
I-20/1500	*DIO	IGN	IV		
IFK20			XX		
M-20/35	TRI	SIN		GM-1A+	
MU20	TRI	SIN	III		
P20			X		
P20A			X		14073-68
P20B			X		14073-68
SG20G	DIO	SIN	V		
SI-20G	COU		XXI		
GV20-P1B	*TET	SIN		GMI-83=	
T-20BFL	COU		XXI		
TKP-20	TMS	POW	XIX		
TR-20/15	TRI	THY		TR-1-6/15+	
V20/20	*DIO	SIN		V1-0.02/20+	
VKU-20-0.25	SCR	SI4	XII-A		
VKU-20-0.5	SCR	SI4	XII-A		
VKU-20-0.75	SCR	SI4	XII-A		
VKU-20-1.0	SCR	SI4	XII-A		
VKU-20-1.5	SCR	SI4	XII-A		
VKU-20-2.0	SCR	SI4	XII-A		
VKU-20-2.5	SCR	SI4	XII-A		
VKU-20-3.0	SCR	SI4	XII-A		
20LM1YE			VIII		
D21			X1		
DGTS21	REC		XI	D7A+	
GI-21B	TRI	SIN	III		
GU21B	TRI	SIN	III		
P21			X		
P21A			X		
P21B			X		
P21D			X		14073-68
P21G			X		14073-68
P21V			X		14073-68
P21YE			X		14073-68
R-21			XX11		
SI-21G	COU		XXI		
DGTS22	REC		XI	D7B+	
FEU-22	PHM		XVI		
GI-22	TRI	SIN	III		
SI-22G	COU		XXI		
GU22A	TRI	SIN	III		10030-62
LI-22	IM		VIII		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
P22			X		
22LU1A	OS		VIII		
DGTS23	REC		XI	D7V+	
FEU-23	PHM		XVI		
GU23A	TRI	SIN	III		10031-68
GU-23B	TRI	SIN	III		
LI-23			VIII		
P23			X		
P23A					
23LK1B	TV		VIII	9CP4$	
23LK2B	TV		VIII		
23LK5B	TV		VIII		
23LK61	PT		VIII		
23LK7B	TV		VIII		
23LK8B	TV		VIII		
23LK9B	ELS		VIII		
23LK41I	TV		VIII		
23LM3S	RA		VIII		
23LM34	OS		VIII	9GP7$	
23LM34V	OS		VIII		
23LU1P	OS			9GP7$	
23LU51A	OS		VIII		
DGTS24	REC		XI	D7G+	
FEU-24	PHM		XVI		
GI-24A	TRI	SIN	III		
GU24A			III		
R-24			XX11		
DGTS25	REC		XI	D7D+	
EVU-25/1.0	IGN	HG	IV		
FEU-25	PHM		XVI		
GI-25	TRI	SIN	III		
GU25B	TRI	SIN	III		
ISK25			XX		
P25			X		
P25A			X		
P25B			X		
T-25BFL	COU		XXI		
VK-25	POW		XII		
25LM1V	RA		VIII		
25P1	BEA	SIN	II	25L6$	
25P1S	BEA	SIN	II	25L6$	
DGTS26	REC		XI	D7E+	
FEU-26L	PHM		XVI		
GU26A	TRI	SIN	III		
GU26B	TRI	SIN	III		
R-26	KLO		IX		
P26			X		
P26A			X		
P26B			X		
DGTS27	REC		XI	D7ZH+	
FEU-27	PHM		XVI		
GU27A	TET	SIN	III		
GU27B	TET	SIN	III	827-R$	
P27			X		
P27A			X		
FEU-28	PHM		XV1		
GSH-28	NOI		IX		
GU28A	TET	SIN	III		
GU28B	TET	SIN	III		
M28	TRI	SIN	III		
P28			X		
FEU-29	PHM		XVI		
G29	TRI	SIN	III		
GSH-29	NOI		IX		
GU29	BLA	TWN	III	829-D$	9839-68
R-29	KLO		IX		
P29			X		
P29A			X		
FEU-30	PHM		XV1		
GDU-30	TRI	SIN		GS-5H+	

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	GOST SPEC. NO.
GI-30	BEA	TWN	III	3E29$	
GMI-30	TRI	SIN	III		
GS-30	COU		XXI		
GU30A	TRI	SIN	III		
K-30	KLO		IX		
M-30/450	TRI	SIN		GMI-30+	
P30			X		
T-30BFL	COU		XXI		
VG-30	POW		XII		
30LK1B	TV		VIII	31LK1B+	
30P1	BEA	SIN		30P1S+	
30P1M	*BEA	SIN		30P1S+	
30P1S	BEA	SIN	II	30P1M	
30TS1M	DIO	SIN	II	30VKH1+, 30TS6S+	
30TS6S	DIO	TWN	II	30VKH1+, 30TS14*	8078-67
30VG1	DIO	SIN	II	30TS1M+	
30VKH1	DIO	SIN	II	30TS6S+	
FEU-31	PHM		XVI		
GU31	TET	SIN	III		
K-31	KLO		IX		
P31			X		
P31A			X		
31LK1B	TV		VIII		
31LK2B	TV		VIII	12LP4$	
31LM32	OS		VIII	12DP7A$	
31LM32V	OS		VIII		
31LG1P			VIII	12DP7$	
31LG33	OS		VIII	12GP7$	
31LG33V	OS		VIII		
FEU-32	PHM		XVI		
G32	TRI	SIN	III		
GU32	BEA	TWN	III	832$	9838-68
K-32	KLO		IX		
P32			X		
FEU-33	PHM		XVI		
GU33B	TET	SIN	III		
K-33	KLO		IX		
FEU-34	PHM		XVI		
GU34B	TET	SIN	III		
K-34	KLO		IX		
FEU-35	PHM		XVI		
GU-35B	TET	SIN	III		
K-35	KLO		IX		
P35			X		
35LK2B	TV		VIII		8815-58
35LK4B	TV		VIII		
35LK6B			VIII		
FEU-36	PHM		XVI		
G36	TRI	SIN	III		
GK3B	TRI	SIN		GK-20+	
GU-36B	TET	SIN	III		
P36A			X		
FEU-37	PHM		XVI		
GU-37B	TRI	SIN	III		
MP37A			X		
MP37B			X		
P37			X		
P37A				MP37A+	
P37B				MP27B+	
FEU-38	PHM		XVI		
P38			X		
P38A				MP38A+	
MP38A			X		
FEU-39	PHM		XVI		
GU-39A	TET	SIN	III		10746-67
GU-39B	TET	SIN	III		11260-65
GU39P	TET	SIN	III		
M39	TRI	SIN	III		
P39			X		
P39B			X		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	GOST SPEC. NO.
FEU-40	NSP		XVI		
GU-40B	TET	SIN	III		
P40			X		
P40A			X		
P40B			X		
T-40BFL	COU		XXI		
V40/100	DIO	SIN		V1-0.1/40+	
40LK1B	TV		VIII	16AP4$	
K-41	KLO		IX		
P41			X		
P41A			X		
FEU-42	NSP		XVI		
K-42	KLO		IX		
P42			X		
P42A			X		
P42B			X		
42LM2YE			VIII		
FEU-43	NSP		XVI		
GU43B	TET	SIN	III		
43LK2B	TV		VIII		
43LK3B	TV		VIII		
43LK6B	TV		VIII		
43LK7B	TV		VIII		
43LK8B	TV		VIII		
43LK9B	TV		VIII		
FEU-44	NSP		XVI		
FEU-45	NSP		XVI		
45LM1B			VIII		
45LM2U	RA		VIII		
45LM3N	RA		VIII		
FEU-46	NSP		XVI		
G46	TRI	SIN	III		
FEU-47	NSP		XVI		
G47	TRI	SIN	III		
SB-47	PND	SIN	II		
47LK1B	TV		VIII		
47LK2B	ELS		VIII		
FEU-48	NSP		XVI		
K-48	KLO		IX		
FEU-49	PHM		XVI		
G-49	TRI	SIN		GS-4+	
EVU-50/1.0	IGN	HG	1v		
FEU-50	PHM		XV1		
GU-50	TRI	SIN		G-46+	
GU50	PND	SIN	III	LS50=	12407-66
I-50/1.5	TRI	IGN	IV		
I-50/1500	DIO	IGN	IV		
IFK50			XX		
LS50	*PND	SIN		GU50=	
M50	TRI	SIN	III		
T-50BFL	COU		XXI		
TKP-50A	TMS	POW	XIX		
TKP-50B	TMS	POW	XIX		
VG-50	POW		XII		
VK-50	POW		XII		
VKU-50-0.25	SCR	SI4	XII-A		
VKU-50-0.5	SCR	SI4	XII-A		
VKU-50-0.75	SCR	SI4	XII-A		
VKU-50-1.0	SCR	SI4	XII-A		
VKU-50-1.5	SCR	SI4	XII-A		
VKU-50-2.0	SCR	SI4	XII-A		
VKU-50-2.5	SCR	SI4	XII-A		
VKU-50-3.0	SCR	SI4	XII-A		
FEU-51	PHM		XV1		
GM51A	TRI	SIN	III		
MI-51	MAG		IX		
SB-51	PND	SIN	II		
STSV51	PHO		XVI		
51LS1	CH		VIII		
FEU-52	PHM		XVI		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
MI-52	MAG		IX		
FEU-53	PHM		XVI		
M53	TRI	SIN	III		
MI-53	MAG		IX		
53LK2B	TV		VIII		
53LK3B	TV		VIII		
53LK4TS			VIII		
53LK5B	TV		VIII		
53LK6B	TV		VIII		
FEU-54	PHM		XVI		
G-54	TRI	SIN		GS-6+	
MI-54	MAG		IX		
R-54			XXII		
FEU-55	PHM		XVI		
FEU-56	PHM		XV1		
G-56	TRI	SIN		G29+	
GM57	TRI	SIN	III	MS50*+, M457+, UB180=	
M57	TRI	SIN	III		
SU-57	PND	SIN	II		
FEU-58	PHM		XV1		
G-58	TRI	SIN		GK-3000+	
FEU-59	PHM		XV1		
59LK1B	TV		VIII		
59LK2B	ELS		VIII		
FEU-60	PHM		XV1		
GM60	TRI	SIN	III	M600*+	
GS-60	COU		XXI		
T-60BFL	COU		XXI		
G61	TRI	SIN	III		
GU61P	TET	SIN	III		
FEU-62	PHM		XVI		
G62	TRI	SIN	III		
GU62P	TRI	SIN	III		
M62	MAG		IX		
FEU-64	PHM		XV1		
G-64	TRI	SIN		GS-3B+	
G65	TRI	SIN	III		
65LK1B			VIII		
GU66P	TRI	SIN	III		
FEU-67	PHM		XV1		
G68	TRI	SIN	III		
GI-70B	TRI	SIN	III	LD-70	
FEU-70			XVI		
GM-70	TRI	SIN	III		
GM70B	TRI	SIN	III		
ISP70			XX		
LD70	TRI	SIN		GI-70B+	
V70/1000	DIO	SIN		V1-0.3/70+	
GK71	PND	SIN	III	G47I+, 47IA*	
GU72	PND	SIN	III		
M74	TRI	SIN	III		
75S5-30	*DIO	SIN		SG2S+, OA3$	
GI-76B	TRI	SIN	III		
GU80	PND	SIN	III	OS450=, P800*+	12404-66
M80	TRI	SIN	III		
T-80BFL	COU		XXI		
FEU-81			XVI		
GU81	PND	SIN	III		13048-67
FEU-82			XVI		
GMI-83	TET	SIN	III	QV20-P18=	
G88	TRI	SIN	III		
V0-88	DIO	TWN		4VKH1+	
GMI-89	TET	SIN	III	G-489*+	
GU89A	TRI	SIN	III	889A$	
GU89B	TRI	SIN	III	889R-A$	
M89	TRI	SIN	III		
GMI-90	TET	SIN	III	G-490*+	
GS90B	TRI	SIN	III	LD-90	
LU-90	TRI	SIN		GS-908+	
MTKH90	TRI	THY	VII		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
RB-90			XXII		
TGI-90/8	TRI	THY		TGI-1-90/8+	
G91	TRI	SIN	III		
G-92	TRI	SIN		GK-2000+	
K-92A	KLO		IX		
K-92B	KLO		IX		
K-92G	KLO		IX		
K-92V	KLO		IX		
MI-95	MAG		IX		
L-99	PTG	SIN		6A2P+, 68E6$	
EVU-100/1.0	IGN	HG	IV		
G-100	TRI	SIN		G-29+	
G-100A	TRI	SIN		GK-3A+	
GD-100	TRI	SIN		G-47+	
GKE100	*TET	SIN	III	GE-1=	
GM100	TRI	SIN	III		
I-100/1.0	TRI	IGN	IV		
I-100/5.0	TRI	IGN	IV		
I-100/1000	*DIO	IGN	IV		
I-100/5000	*DIO	IGN	IV		
ISSHI00-I			XX		
ISSH100-3			XX		
L100	*PND	DIO		6B2P*	
VG-100	POW		XII		
VK-100	POW		XII		
VKU100-0.25	SCR	SI4	XII-A		
VKU100-0.5	SCR	SI4	XII-A		
VKU100-0.75	SCR	SI4	XII-A		
VKU100-1.0	SCR	SI4	XII-A		
VKU100-1.5	SCR	SI4	XII-A		
VKU100-2.0	SCR	SI4	XII-A		
VKU100-2.5	SCR	SI4	XII-A		
VKU100-3.0	SCR	SI4	XII-A		
VKUV-100-0.25	SCR	SI4	XII-A		
VKUV-100-0.5	SCR	SI4	XII-A		
VKUV-100-0.75	SCR	SI4	XII-A		
VKUV-100-1.0	SCR	SI4	XII-A		
VKUV-100-1.5	SCR	SI4	XII-A		
VKUV-100-2.0	SCR	SI4	XII-A		
VKUV-100-2.5	SCR	SI4	XII-A		
VKUV-100-3.0	SCR	SI4	XII-A		
A101	DEC		XX11I		
AI-101A	TUN		XI-B		
AI-101B	TUN		XI-B		
AI-101D	TUN		XI-B		
AI-101G	TUN		XI-B		
AI-101I	TUN		XI-B		
AI-101V	TUN		XI-B		
AI-101YE	TUN		XI-B		
AI-101ZH	TUN		XI-B		
D101	REC		XI		
D101A	REC		XI		
LI-101	IC		VIII		
P101			X		
P101A			X		
P101B			X		
D102	REC		XI		
D102A	REC		XI		
P102			X		
D103	REC		XI		
D103A	REC		XI		
KD103A			XI		
KD103B			XI		
P103			X		
P103A			X		
S-103	TET	SIN		GKE-1000+	
D104	REC		XI		
D104A	REC		XI		
L-104	PND	SIN		6K4P+, 6BA6$	
PI04			X		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
D105	REC		XI		
D105A	REC		XI		
KD105A			XI		
KD105B			XI		
KD105V			XI		
P105			X		
105S5-30	DIO	SIN		SG3S+, OC3$	
D106	REC		XI		
D106A	REC		XI		
P106			X		
S-106	TET	SIN		GKE-150+	
D107	REC	SIP	XI		
D107A	REC	SIP	XI		
P107			X		
UB107	*TRI	SIN		4S1+	
D108	REC	SIP	XI		
GT108A			X		
GT108B			X		
GT108G			X		
GT108V			X		
P108			X		
P108A			X		
D109	REC	SIP	XI		
GT109A			X		
GT109B			X		
GT109D			X		
GT109G			X		
GT109I			X		
GT109V			X		
GT109YE			X		
GT109ZH			X		
P109			X		
S-109	TET	SIN		GKE-300+	
P110			X		
UB110	*TRI	SIN		4S2+	
P111			X		
P111A			X		
P111B			X		
VU-111D	DIO	SIN	IV		
P112			X		
SB-112	PND	SIN	II	4E1+	
MP113			X		
MP113A			X		
MP114			X		
MP115			X		
MP116			X		
SO-118	TRI	SIN		4S5+	
G120	TRI	SIN	III		
IFK120			XX		
MI-120	MAG		IX		
TR-120/15	TRI	THY		TR-1-40/15+	
SO-122	PND	SIN		4P1+	
SO-124	PND	SIN	II	4ZH5+	
VO-125	DIO	SIN	IV		
SK-127			XXII		
VG-129	DIO	SIN	IV		
UB-132	*TRI	SIN	II	4S3+	
KS133A	REG	SI	X111		
P135			X		
MI-137	MAG		IX		
KS139A	REG	SI	X111		
TO-141	*TRI	SIN	II	3S1+	
TO-142	*TRI	SIN	II	3S2+, 3S9+	
KS147A	REG	SI	X111		
SB-147	TET	SIN		4E2+	
SO-148	PND	SIN	II	4E3+	
GI-150	TRI	SIN	III		
GKE150	*TET	SIN	III	GE-2=	
GU150	TRI	SIN	III		7712-55
I-150/1.0	TRI	IGN	IV		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
M150	TRI	SIN	III		
150S5-30	*DIO	SIN		SG4S+, OD3$	
SB-152	TRI	SIN	II		
UB-152	TRI	SIN	II	2S1+	
UB-153	TRI	SIN	II		
SB-154	PND	SIN	II	2E1+	
SB-155	BEA	SIN		2P2+	
UB-155	*BEA	SIN	II	2E2+	
KS156A	REG	SI	X111		
VG-161	DIO	SIN	IV		
VG-163			IV		
KS168A	REG	SI	X111		
VG-176	DIO	SIN	IV		
UB-178	TRI	SIN	II		
SO-182	PND	SIN	II		
UB-182	*TRI	SIN	II		
SO-185	TRI	SIN		4S5+	
UO186	*TRI	SIN	II	4S4+	
US-186	TRI	SIN		4S4+	
VO-188	DWD	SIN	IV	4VKH1*	
SB-190	PND	SIN	II		
191P	TET	SIN	II		
KS194A	REG		XIII		
KS194B	REG		XIII		
KS194G	REG		XIII		
KS194V	REG		XIII		
VO-196	DIO	SIN	IV		
VO-197	DWD	SIN	IV		
GD-200	TRI	SIN		GS-4+	
I-200/1.5	TRI	IGN	IV		
IFP200			XX		
IVS200/2		IGN	IV		
TGI-200	TRI	THY	VII	MTI-2+	
VGV200	POW		XII		
VK-200	POW		XII		
VKV200	POW		XII		
AI-201A	TUN		XI-B		
AI-201B	TUN		XI-B		
AI-201D	TUN		XI-B		
AI-201G	TUN		XI-B		
AI-201I	TUN		XI-B		
AI-201K	TUN		XI-B		
AI-201L	TUN		XI-B		
AI-201V	TUN		XI-B		
AI-201YE	TUN		XI-B		
AI-201ZH	TUN		XI-B		
D201A	REC		XI		
D201B	REC		XI		
D201D	REC		XI		
D201G	REC		XI		
D201I	REC		XI		
D201V	REC		XI		
D201YE	REC		XI		
D201ZH	REC		XI		
KU-201A	SCR		XII-A		
KU-201B	SCR		XII-A		
KU-201D	SCR		XII-A		
KU-201G	SCR		XII-A		
KU-201I	SCR		XII-A		
KU-201K	SCR		XII-A		
KU-201L	SCR		XII-A		
KU-201V	SCR		XII-A		
KU-201YE	SCR		XII-A		
KU-201ZH	SCR		XII-A		
LI-201	IM		VIII		
P201			X		
P201A			X		
SG201S	DIO	SIN	V		
D202	REC		XI		
KD202A			XI		

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TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
KD202B			XI		
KD202D	REC		XI		
KD202G	REC		X1		
KD202I	REC		X1		
KD202K	REC		XI		
KD202L	REC		X1		
KD202M	REC		X1		
KS202N	REC		X1		
KD202R	REC		X1		
KD202S	REC		X1		
KD202V	REC		X1		
KD202Y&	REC		X1		
KD202Z#	REC		X1		
KU-202A	SCR	TRI	XII-A		
KU-202B	SCR	TRI	XII-A		
KU-202D	SCR	TRI	XII-A		
KU-202G	SCR	TRI	XII-A		
KU-202I	SCR	TRI	XII-A		
KU-202K	SCR	TRI	XII-A		
KU-202L	SCR	TRI	XII-A		
KU-202M	SCR	TRI	XII-A		
KU-202N	SCR	TRI	XII-A		
KU-202V	SCR	TRI	XII-A		
KU-202Y&	SCR	TRI	XII-A		
KU-202Z#	SCR	TRI	XII-A		
LI-202	IM		VIII		
P202			X	2N68*	
SG202B	DIO	SIN	V		
VO-202	DWD	SIN	IV		
D203	REC		XI		
LI-203			VIII		
P203			X	2N68*	
SG203K	DIO	SIN	V		
D204	REC		XI		
UV-204	TWT		IX		
D205	REC		XI		
UV-205	TWT		IX		
D206	REC		XI		
D207	REC		XI		
LI-207	IM		VIII		
P207			X		
P207A			X		
D208	REC		XI		
P208			X		
P208A			X		
D209	REC		XI		
P209	GAP		X		
P209A	GAP		X		
D210	REC		XI		
P210	GAP		X		
P210A	GAP		X		
P210B			X		
P210V			X		
D211	REC		XI		
KS211B	REG	SI	X111		
KS211V	REG	SI	X111		
KS211D	REG	SI	X111		
KS211G	REG	SI	X111		
P211			X		
LI-212	IM		VIII		
P212			X		
P212A			X		
TG212M	TRI	THY	VII		
P213			X		
P213A			X		
P213B			X		
TG-213	TRI	THY	VII	PT-2**	
D214	REC	SIA	XI		
D214A	REC	SIA	XI		
D214B	REC		X1		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
P214			X		
P214A			X		
P214B			X		
P214G			X		
P214V			X		
D215	REC	SIA	XI		
D215A	REC	SIA	XI		
D215B	REC	SIA	XI		
P215			X		
P216			X		
P216A			X		
P216B			X		
P216D			X		
P216G			X		
P216V			X		
D217	REC	SIA	XI		
P217			X		
P217A			X		
P217B			X		
P217G			X		
P217V			X		
D218	REC	SIA	XI		
D219A	REC	SIA	XI		
D220	REC	SIA	XI		
D220A	REC	SIA	XI		
D220B	REC	SIA	XI		
SK-220			XxII		
D221	REC	SIA	XI		
D222	REC	SIA	XI		
D223	REC	SIA	XI		
D223A	REC	SIA	XI		
D223B	REC	SIA	XI		
D224	REC	SIA	XI		
D224A	REC	SIA	XI		
D224B	REC	SIA	XI		
D225	REC	SIA	XI		
D226	REC	SIA	XI		
D226A	REC	SIA	XI		
D226B			XI		
D226D	SIA		XI		
D226G	SIA		XI		
D226V	SIA		XI		
D226Y&	SIA		XI		
SG226	DIO	SIN	V		
D227-A	SWI	SI4	XI-A		
D227-C	SWI	SI4	XI-A		
D227-D	SWI	SI4	XI-A		
D227-G	SWI	SI4	XI-A		
D227-I	SWI	SI4	XI-A		
D227-V	SWI	SI4	XI-A		
D227Y&	SWI	SI4	XI-A		
D227-Z#	SWI	SI4	XI-A		
SG227	DIO	SIN	V		
D228-A	SWI	SI4	XI-A		
D228-B	SWI	SI4	XI-A		
D228-D	SWI	SI4	XI-A		
D228-G	SWI	SI4	XI-A		
D228-I	SWI	SI4	XI-A		
D228-V	SWI	SI4	XI-A		
D228Y&	SWI	SI4	XI-A		
D228-Z#	SWI	SI4	XI-A		
D229A	SIA		XI		
D229B	SIA		XI		
D229D			XI		
D229E			XI		
D229G			XI		
D229V			XI		
D230A	SIA		XI		
D230B	SIA		XI		
VO-230	DIO	SIN	IV		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
D231(P)	REC	SIA	XI		
D231A(P)	REC	SIA	XI		
D231B(P)	REC	SIA	XI		
D232(P)	REC	SIA	XI		
D232A(P)	REC	SIA	XI		
D232B(P)	REC	SIA	XI		
D233(P)	SIA		XI		
D233A	REC	SIA	XI		
D233B(P)	REC	SIA	XI		
D234B(P)	REC	SIA	XI		
D235A	CON	SI	XI-C		
D235B	CON	SI	XI-C		
D235G	CON	SI	XI-C		
D235V	CON	SI	XI-C		
TG-235	TRI	THY	VII	PT-3*+	
VG-236			IV		
VG-237	DIO	SIN	IV		
D238A	CON	SI	XI-C		
D238B	CON	SI	XI-C		
D238D	CON	SI	XI-C		
D238G	CON	SI	XI-C		
D238V	CON	SI	XI-C		
D238Yc	CON	SI	XI-C		
VO-239	DIO	SIN	IV		
UB-240	TRI	SIN	II	2S2+	
SB241	*PND	SIN		2K1*, 2K1M+, SO241*	
SO241	*PND	SIN		2K1*, 2K1M+, SO241*	
D242	REC		XI		
D242A	REC		XI		
D242B	REC		XI		
SB-242	PTG	SIN		2A1+	
SO-242	PTG	SIN	II	SB242, 2A1, 2A1M	
D243	REC		XI		
D243A	REC		XI		
D243B	REC		XI		
SB243	*TRI	DUO		2N1*, 2N1M*, SO243*	
SO-243	*TRI	TWN	II	2N1+	
D244	REC		XI		
D244A	REC		XI		
D244B	REC		XI		
SB244	*BEA	SIN		2P1+, SO244+	
SO-244	PND	SIN	II	2P1+	
D245	REC		XI		
D245A	REC		XI		
D245B	REC		XI		
SB245	*PND	SIN		2ZH1M+	
D246	REC		XI		
D246A			XI		
D246B			XI		
D247	REC		XI		
D247B	REC		XI		
LO-247	OS		VIII		
LO-248	OS		VIII		
LO-249	OS		VIII		
GKO-250	TRI	SIN		GK-1A+	
VG-252	DIO	SIN	IV		
G256	TRI	SIN	III		
SO257	*PND	SIN	II	2ZH4+	
SB258	*BEA	SIN		2P3+, 2P2M+, SO258+	
SO-258	*PND	SIN	II	2P3+	
SB259	*TRI	DUO		4N1+	
SO259	*TRI	DUO		4N1+	
RB-280			XXII		
G-300	TRI	SIN		G68	
GI-300	TRI	SIN		GI-18B+	
GK-300	TRI	SIN		GU-8+	
GKL300	TET	SIN	III		
IFB300			XX		
TKP-300	TMS	POW	XIX		
KT301			X		

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TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
KT301A			X		
KT301B			X		
KT301D			X		
KT301G			X		
KT301V			X		
KT301Yc			X		
KT301ZH			X		
SG301S	DIO	SIN	V		9103-59
D302	REC		XI		
D302A			XI		
P302			X		
SG302S	DIO	SIN	V		9103-59
D303	REC		XI		
D303A			XI		
P303			X		
P303A			X		
SG303S	DIO	SIN	V		9103-59
D304	REC		XI		
KU304	KLA		IX		
KU304A	KLA		IX		
P304			X		
SG304S	DIO	SIN	V		
D305	REC		XI		
SG305K	REG		V		
KT306A			X		
KT306B			X		
KT306G			X		
KT306V			X		
P306			X		
P306A			X		
SG306K	REG		V		
KT307A			X		
KT307B			X		
KT307G			X		
KT307V			X		
P307			X		
P307A			X		
P307B			X		
P307G			X		
P307V			X		
SG307K			V		
GT308A			X		
GT308B			X		
GT308V			X		
K-308	KLO		IX		
KU308	KLA		IX		
P308			X		
SG308K			V		
GT309A			X		
GT309B			X		
GT309D			X		
GT309G			X		
GT309V			X		
GT309Yc			X		
KU309	KLA		IX		
P309			X		
SG309K			V		
D310	GEA		XI		
GT310A			X		
GT310B			X		
GT310D			X		
GT310G			X		
GT310V			X		
GT310Yc			X		
KU310A	KLA		IX		
KU310B	KLA		IX		
D311	REC		XI		
D311A	REC		XI		
D311B	REC		XI		
GT311A			X		

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TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
GT311B			X		
GT311D			X		
GT311G			X		
GT311I			X		
GT311V			X		
GT311YE			X		
GT311ZH			X		
S6311S	REG		V		
D312	REC		X1		
D312A	REC		X1		
D312B	REC		X1		
KT312A			X		
KT312B			X		
KT312G			X		
KT312V			X		
GT313A			X		
GT313B			X		
P314A			X		
P314B			X		
P314C			X		
KT315A			X		
KT315B			X		
KT315G			X		
KT315V			X		
KT316A			X		
KT316B			X		
KT316D			X		
KT316G			X		
KT316V			X		
KT319A			X		
KT319B			X		
KT319V			X		
GT320A			X		
GT320B			X		
GT320V			X		
GT321A			X		
GT321B			X		
GT321D			X		
GT321G			X		
GT321V			X		
GT321YE			X		
GT322A			X		
GT322B			X		
GT322D			X		
GT322G			X		
GT322V			X		
GT322YE			X		
P322			X		
KT325A			X		
KT325B			X		
KT325D			X		
KT325G			X		
KT325V			X		
TGI-325/16	TRI	THY		MTI-5+, TGI-1-325/16+	
KT326A			X		
KT326B			X		
GT328			X		
GT329A			X		
GT329B			X		
GT329V			X		
GT330A			X		
GT330B			X		
R-350			XXII		
RB-350			XXII		
K-351	KLO		IX		
K-352	KLO		IX		
VO-360	DIO	SIN	IV		
GD-400	TRI	SIN		GS-6+	
M400	TRI	SIN	III		
TG-400/15	TRI	THY		TRI-130/15+	

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TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES.	COST SPEC. NO.
TGI400/3.5	TRI	THY		TGI-2-400/3.5+	
D401	MIX		XIV		
GI401A			XI-E		
GI401B			XI-E		
KTS401A	REC		XI		
KTS401B	REC		XI		
LI-401			VIII		
M401	TRI	SIN	III		
P401			X	2N112$	
D402	MIX	SI	XIV		
GD402A	REC		X1		
GD402B	REC		X1		
GT402					
GT402A			X		
GT402B			X		
P402			X	SB-100$	
D403A	MIX		XIV		
D403B	MIX		XIV		
D403V	MIX		XIV		
GT403A			X		
GT403B			X		
GT403D			X		
GT403G			X		
GT403I			X.		
GT403V			X		
GT403YE			X		
GT403ZH			X		
P403			X	OC614=	
P403A			X	OC614=	
D404	MIX	SI	XIV		
P404			X		
P404A			X		
D405	DET		XIV		
D405A	DET		XIV		
D405AP	DET		XIV		
D405B	DET		XIV	1N23D$	
D405BP	DET		XIV		
P405			X		
P405A			X		
D406	MIX	SI	XIV		
P406			X	GT-60=, 2N113$	
LI-407	VI		VIII		
P407			X	2N114$	
D408	MIX	SI	XIV		
LI-408	VI	VIII			
P408			X		
LI-409	VI		VIII		
P409			X		
T-409	DIO	IGM	IV		
G410	TRI	SIN	III		
LI-410	VI		VIII		
P410			X		
P410A			X		
T-410	DIO	IGM	IV		
410R	KLO		IX		
G411	PND	SIN	III	KZH1*+	
P411			X	AF114=	
P411A			X	AF114=	
T-411	DIO	IGM	IV		
G412	PND	SIN	III		
LI-412	VI		VIII		
G413	PND	SIN	III	GZH2*+	
G414	PND	SIN	III		
P414			X		
P414A			X		
P414B			X		
P415			X		
P415A			X		
P415B			X		
P416			X		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
P416A			X		
P416B			X		
P416V			X		
G417	TRI	SIN	III		
P417			X		
P417A			X		
G418	PND	SIN	III		
P418			X		
P418A			X		
P418B			X		
P418G			X		
P418M			X		
P418V			X		
P420			X		
P421			X		
UV-421	TWT		IX		
G422	PND	SIN	III		
P422			X		
P422A			X		
UV-422	TWT		IX		
P423			X		
P423A			X		
G424	PND	SIN	III		
G425	PND	SIN	III		
G430	TRI	SIN	III		
RB-430			XXII		
G431	TRI	SIN	III	G431A+	
G431A	TRI	SIN	III	G431	
G-431R	TRI	SIN		GS-4D+	
G433	TRI	SIN	III	G433A+	
G433A	TRI	SIN	III	G433	
M435	TRI	SIN	III		
UV-438	TWT		IX		
UV-440	TWT		IX		
G441	TRI	SIN	III		
G-450	TRI	SIN	III		
OS450	*PND	SIN		GU80, P800+*	
R-450			XXII		
M-451	TRI	SIN		GM-51A+	
G-452	TRI	SIN	III	G-431A+	
G-454	TRI	SIN	III	GS-3B+	
M457	*TRI	SIN	II	MS3*+, UB180=, GM57+	
M-470	TRI	SIN		GM-70+	
G471	*PND	SIN		GK71+	
G472	TRI	SIN	III		
G480	*TRI	SIN		GI-17*+	
G-483	TET	SIN		GMI-83+	
G484	TRI	SIN	III		
G-489	*TET	SIN		GMI-89+	
G-490	*TET	SIN		GMI-90*+	
IFK500			XX		
IFP500			XX		
ISSH500			XX		
VGV500	POW		XII		
D501			XIV		
P501			X		
P501A			X		
P502			X		
P502A			X		
P502B			X		
P502V			X		
KD503A	REC		X1		
KD503B	REC		X1		
P503			X		
P503A			X		
P504			X		
P504A			X		
P505			X		
P505A			X		
GD507A	REC		X1		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
M-532	MAG		IX		
M571	MAG		IX		
MI-588	MAG		IX		
MI-589A	MAG		IX		
MI-589B	MAG		IX		
MI-589V	MAG		IX		
M600	*TRI	SIN		GM60+	
KT601			X		
KT601A			X		
LI-601	IM		V111		
P601			X		
P601A			X		
P601A1			X		
P601B			X		
P601B1			X		
P601I			X		
D602A	VID		XIV		
D602B	VID		XIV		
D602V	DET		XIV		
KT602A			X		
KT602B			X		
KT602G			X		
KT602V			X		
P602			X		
P602A			X		
P602AI			X		
P602I			X		
D603	VID		XIV		
D604	VID	SI	XIV		
KT604A			X		
KT604B			X		
P604	GAP		X		
P604A	GAP		X		
P604B	GAP		X		
D605	MIX	SI	XIV		
KT605A			X		
KT605B			X		
P605	GDP		X		
P605A	GDP		X		
P606	GDP		X		
P606A	GDP		X		
D607			XIV		
D607A			XIV		
P607			X		
P607A			X		
D608			XIV		
P608			X		
P608A			X		
P608B			X		
D609			XIV		
P609			X		
P609A			X		
P609B			X		
OV-612	BWT		IX		
OV-613	BWT		IX		
OV-614	BWT		IX		
KS620A	REG	SI	X111		
OV-621	BWT		IX		
OV-622	BWT		IX		
KS630A	REG	SI	X111		
KS650A	REG	SI	X111		
KS680A	REG	SI	X111		
700AU	MAG		IX		
GT701A			X		
P701			X		
P701A			X		
P701B			X		
P702			X		
P702A			X		
706AU	MAG		IX		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
707A/B	KLO		IX		
LO-709A	OS		VIII		
714AU	MAG		IX		
LK-715	*TV			18LK15+	
720AYE	MAG		IX		
723A/B	KLO		IX		
725A	MAG		IX		
LK-726	TV			18LK38+	
726	KLO		IX		
LO-729	*OS			8L029+, 38P1A$	
LO-730	OS			8L030+	
LO-731	OS			13LM31+	
LO-732	OS			31LM32+	
LO-733	*OS			31L033+	
LO-734	OS			23LM34+	
LO-735	OS			18LM35+	
LO-736	*OS			13L036+	
LO-737	*OS			13L037+	
LO-738	*OS			5L038+, 2AP1$	
LO-739	OS			8L039+	
LK-740	*TV			18L040B+, 7JP4$	
K-743	KLO		IX		
LO-743	*OD			10L043+	
K-744	KLO		IX		
K-745	KLO		IX		
K-746	KLO		IX		
K-747	KLO		IX		
LO-747	*OD			18L047+	
LO-748	*OD			13L048+	
LO-749	*OS			13L049+	
GK750	TRI	SIN	III		7709-55
L0751	OS			23L051+	
LO-754	*OS			13L054+	
K-765	KLO		IX		
K-766	KLO		IX		
K-767	KLO		IX		
K-768	KLO		IX		
K-769	KLO		IX		
K-770	KLO		IX		
K-771	KLO		IX		
M800	TRI	SIN	III		
P800	*PND	SIN		GU80*+, 0S450=	
K-801	KLO		IX		
KT801A			X		
KT8018			X		
K-802	KLO		IX		
KT802A			X		
K-803	KLO		IX		
KT803A			X		
GT804A			X		
GT804B			X		
GT804V			X		
K-804	KLO		IX		
K-805	KLO		IX		
KT805A			X		
KT805B			X		
K-806	KLO		IX		
G807	BEA	SIN	III	807$	8380-65
K-807	KLO		IX		
D808	REG		XIII		
D809	REG		XIII		
D810	REG		XIII		
D811	REG		XIII	811-A$	
G811	TRI	SIN	III		
D813	REG		XIII		
G-813	BEA	SIN		GU-13+, 813$	
D814-A	REG	SI	XIII		
D814-B	REG	SI	XIII		
D814-C	REG	SI	XIII		
D814-G	REG	SI	XIII		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
D814-V	REG	SI	XIII		
D815A(P)	REG	SI	XIII		
D815B(P)	REG	SI	XIII		
D815C(P)	REG	SI	XIII		
D815G(P)	REG	SI	XIII		
D815I	REG	SI	XIII		
D815V(P)	REG	SI	XIII		
D815YE(P)	REG	SI	XIII		
D815ZH(P)	REG	SI	XIII		
D816A(P)	REG	SI	XIII		
D816B(P)	REG	SI	XIII		
D816D(P)	REG	SI	XIII		
D816G(P)	REG	SI	XIII		
D816V(P)	REG	SI	XIII		
D817A(P)	REG	SI	XIII		
D817B(P)	REG	SI	XIII		
D817G(P)	REG	SI	XIII		
D817V(P)	REG	SI	XIII		
D818A	REG	SI	XIII		
D818B	REG	SI	XIII		
D818D	REG	SI	XIII		
D818G	REG	SI	XIII		
D818V	REG	SI	XIII		
D818YE	REG	SI	XIII		
G-827	TET	SIN		GU-27B+, 827R3	
G-829	TET	TWN		GU-29+, 829-B$	
G-832	BEA	TWN		GU-32+, 832A$	
G837	*PND	SIN	III	0S12/500=, 837$	
G-880	TRI	TWN		GU-12A+, 880$	
TG-884	TRI	THY		TG1-0.1/0.3+, 884*	
G889	TRI	SIN	III	889-A$	
G891	TRI	SIN	III	891$	
D901A	VAR	SI	XI-D		
D901B	VAR	SI	XI-D		
D901D	VAR	SI	XI-D		
D901G	VAR	SI	XI-D		
D901V	VAR	SI	XI-D		
D901YE	VAR	SI	XI-D		
KD901A			XI-E		
KD901B			XI-E		
KD901G			XI-E		
KD901V			XI-E		
D902	VAR	SI	XI-D		
KD902D			XI-E		
KD902I			XI-E		
KD902YE			XI-E		
KD902ZH			XI-E		
KT902A			X		
KD903A			XI-E		
KD903B			XI-E		
KT903A			X		
KT903B			X		
KD904A			XI-E		
KD904B			XI-E		
KD904D			XI-E		
KD904G			XI-E		
KD904V			XI-E		
KD904YE			XI-E		
KD906			XI-E		
KD907			XI-E		
KD909			XI-E		
GD1000	TRI	SIN		G-29+	
GKE1000	TET	SIN	III		
M-1000	TRI	SIN		GM-100+	
VGV1000	POW		XII		
VKV1000	POW		XII		
D1001	REC		XI		
D1001A	REC		XI		
D1002	REC		XI		
D1002A	REC		XI		

GROUP I, NUMERICAL

TYPE NUMBER	KIND	TYPE	TABLE NO.	SIMILAR TYPES	COST SPEC. NO.
D1003A	REC		X1		
D1004	SIA		X1		
D1005A	SIA		X1		
D1005B	SIA		X1		
D1006	SIA		X1		
D1007	SIA		X1		
D1008	SIA		X1		
D1009	SIA		X1		
D1009A	SIA		X1		
D1010	SIA		X1		
D1010A	SIA		X1		
D1011A	SIA		X1		
TG1050	TRI	THY		TG2-0.1/0.1+	
IFP1500			XX		
1502	DIO	SIN	IV	5TS9S	
1504	TRI	SIN	II		
1506	BEA	TWN	II		
1509	BEA	TWN	II		
1511	PND	SIN	II		
1512	PND	SIN	II	6AG7$	
1514	PND	SIN	II		
1515	BEA	SIN	II	6KH2P+,EAA91=,6AL5$	
1536	DIO	TWN	II		
1538	BEA	SIN	II		
1539	TRI	SIN	II		
1540	BEA	SIN	II		
1550	DWD	SIN	II		
D1602A	REC		X1		
D1602B	REC		X1		
D1602V	REC		X1		
G1625	BEA	SIN	III	1625$	
GK2000	TRI	SIN	III		
IFK2000			XX		
TG2050	TET	THY		TG1-0.1/1.3+, 2050$	
GK3000	TRI	SIN	III		7710-55
M-3000	TRI	SIN		GMI-1B+	
PI-3000	*PND	SIN		GI-8*+	
GI-3100	TRI	SIN	III		
IFP4000			XX		
4378D			XXII		
4671	*TRI	SIN		6S12H+	
G-5000	TRI	TWN		GS-3B+	
IFP15000			XX		
IFK20000			XX		
640011	TRI	SIN	III		
IFK80000			XX		

GROUP II, RECEIVING TUBES

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E_f	I_f	MAXIMUM			TYPICAL								CAPACITY		f_{max}	BASE
								E_b	I_b	P_p	E_b	E_{g_2}	E_{g_1}	I_b	I_{g_2}	Sm	μ	R_p	IN	OUT		
						V	mA	V	mA	W	V	V	V	mA	mA	mmho		Ω	pF	pF	MHz	
06P2B	PND	SIN	T3F	AF	F	0.6	30	35	350U	/0.1	30	30	0	90U	/0.1	.1		1M				5CL
06ZH6B	PND	SIN	T3F	AF	F	0.6	20	35	350U	8M	30	30	0	150U	0.1	.1		900K	5.0	3.0		5CL
1A1P	PTG	SIN	T6		F	1.2	60	100		0.3	90	45	0	/1	1.7	.3		500K	7.0	7.0		7AT
1A2P	PTG	SIN	T6		F	1.2	30	90	3	0.3	60	45	0	/1	1.1	.2			5.1	6.3		7AT
1B1P	PND	DIO	T6		F	1.2	60	100	4	0.2	67	67	0	2	0.3	.6		1M	2.2	2.4		6AU
1B2P	PND	DIO	T6		F	1.2	30	90	2	0.1	60	45	0	900U	0.2	.5		1M	1.8	2.1		6AU
1E1P	TET	SIN	T5	EL	F	1.0	46				6	4	3	100U	0.4	/.1	1		3.5			TE2
1E3P	TRI	SIN				1.3	24				8		3	300U		/.1	2		3.5			
1F2B	TRI	PND			F	1.2	60				45		0	1		0.4			2.5	1.5		
1F2B	PND	TRI			F	1.2	60				45	45	0	/1	0.2	0.3		600K	4.0	3.5		
1I2P	TRI	HEX			F	1.2	60	90	2	0.2	60		0	1		1.0	25	25K	0.7	3.0		PT1
1I2P	HEX	TRI			F	1.2	60	90	2	0.2	60	45	0	1	0.3	.2		650K	3.5	4.7		PT1
1K1P	PND	SIN	T6		F	1.2	60	100		0.6	90	67	0	3	1.2	.9		1M	3.5	7.5		6AR
1K2P	PND	SIN	T6		F	1.2	30	90	3	0.3	60	45	0	1	0.3	.7		1M	3.0	4.9		6AR
1K12B	PND	SIN	T3B		F	1.2	60	12	0 5	0.6	60	40	0	2	0.7	1.0		30K	3.7	2.8		
1N3S	TRI	DUO	T10		F	1.2	120	150		1.0	120		5	/3		1.8	11	14K				7AB
1P2B	PND	SIN	T3F	AF	F	1.3	50	50			45	45	2	1	0.5	.4		50K	3.0	6.0		5CL
1P3B	PND	SIN	T3F	AF	F	1.3	28	50			45	45	2	1	0.3	.3		50K	3.0	6.0		5CL
1P4B	PND	SIN	T3F	AF	F	1.3	20	50	/2	5.0	45	45	2	1	0.3	.3		200K	3.0	6.0		5CL
1P5B	PND	SIN	T3B		F	1.2	120	150	18	1.7	90	90	/5	12	1.0	1.9		60K	3.9	2.6	100	
1P22B	PND	SIN	T3B		F	1.2	115	180	17	2.0	90	90	/5	13	1.0	2.8		60K	6.9	4.7	100	
1P24B	PND	SIN	T3B		F	1.2	250	300	25	2.5	150	125	14	17	3.0	2.8			7.1	4.0	60	
1P32B	PND	SIN	T3B		F	1.2	215	200	20	3.0	150	150	14	12	1.5	2.3			6.3	5.8	60	
1S12P	TRI	SIN			F	1.2	30	90	/3	0.2	60		1	1		.9	16	19K	0.8	0.7	300	TS1
1S38A	TRI	SIN			F	0.9	85				70		0	2		0.9	24		0.9	1.2		
1TS1S	DIO	SIN	T10		F	0.7	185	15K	5					/1					2.0			8HC
1TS7S	DIO	SIN	T10		F	1.3	200	30K	17					2							300	8HC
1TS11P	DIO	SIN	T6		F	1.2	200	20K	2					300U					1.5			DS3
1TS20B	DIO	SIN	T3B		F	1.0	250	10K	300U					135U					0.8			
1TS21P	DIO	SIN	T7		H	1.4	690	25K	40					8								DS5
1YE4A	TRI	SIN	T2B		F	1.2	25	20	0 1	0.2	150		/1	900U					1.3	1.0		T10
1ZH1ZH	PND	SIN	ACO		F	1.2	50	145			135	68	3	/2	0.4	.6		800K	1.8	2.5		
1ZH2M	PND	SIN			F	1.2	30				70	70	0	1	0.6	/.5						
1ZH17B	PND	SIN	T3B		F	1.2	60	90	5	0.5	60	40	0	2	0.1	1.0		25K	3.7	2.7		
1ZH18B	PND	SIN	T3B		F	1.2	60	90	5	0.3	60	40	0	1	0.3	1.0		60K	3.7	2.7		

GROUP II, RECEIVING TUBES

TYPE NUMBER		KIND	TYPE	BULB	USE	CATHODE	E_f	I_f	MAXIMUM			TYPICAL							CAPACITY		f_{max}	BASE
									E_b	I_b	P_p	E_b	E_{g_2}	E_{g_1}	I_b	I_{g_2}	S_m	μ	R_p	IN	OUT		
							V	mA	V	mA	W	V	V	V	mA	mA	mmho		Ω	pF	pF	MHz	
1Z H24B		PND	SIN	T3B		F	1.2	13	120	/2	0.1	60	45	0	1	0.2	0.9		40K	3.6	2.4		
1Z H26A		PND	SIN			F	1.4	130				135	70	/1	4	0.5	1.2						
1Z H29B		PND	SIN	T3B		F	1.2	60	150	8	1.2	60	45	0	5	0.5	2.5		35K	5.0	3.0		
1Z H30B		PND	SIN	T3B		F	1.2	15	200	1		12	12	0	1		.8		600	8.5	3.5		
1Z H36B		PND	SIN	T3B		F	1.3	75	200			150	45	1	3	0.4	1.5			2.2	3.0		
1Z H37B		PND	SIN	T3B		F	1.2	60	100	/5		45	45	0	2	0.4	1.0		30K	2.2	2.6		
1Z H42A		PND	SIN	T2B		F	1.2	15	20	1		6	6	0	/1	0.2	0.5		100K	10.0	3.5		
6U-2		BEA	SIN	S18		H	6.3	900	750	120	30.0	250	250				10.0					60	
2A1		PTG	SIN		CN	H	2.0	160	160		0.7	120	70	4	2		0.4		150K	9.6	11.4		8A
2D1L		DWD	SIN	F10		H	2.2	130				50			2								DW3
2D1S		DIO	SIN	LIT		H	2.3	400	100		/0.1				1							3G	D12
2D2S		DIO	SIN	F27	NO	F	1.5	1500	200	40	5.0											3G	
2D3B		DIO	SIN	T3F	NO	F	2.2	11	0			150			5					2.4			
2D3S		DIO	SIN	T3F		H	2.2	110				150											
2D7S		DIO	SIN	LIT	NO		1.4	120	350		6.0	300			3								
2D9S		DIO	SIN	T10		W	3.7	550	500	1													
2E1		TET	SIN			F	2.0	110	160		1.0	100	40	0	1	0.5	.9		1M	9.0	9.0		TE5
2E2	*	TET	SIN			F	1.8	320			1.5	160	80	2	7	4.0	1.8		300K	8.3	9.0		TE6
2E2P		TET	DUO	T8	EL	F	2.0	55				6	3	4	45		22	1		4.0			TE3
2K1		PND					2.0	120	120			120	70	1	/4	1.2	1.6		750K				
2K1M	*	PND	SIN			F	2.0	120				150	70	1	3	1.1	1.4		1M				5Y
2K2M	*	PND	SIN	T9		F	2.0	60	160		0.5	120	70	/1	2	0.5	.9		1M	5.4	8.1		5Y
2KH1L		DWD	SIN	F10		H	2.2	130				50			2					2.2			
2N1		TRI	DUO			F	2.0	240	160		1.5	120		0	3		2.1	32		2.8	5.7		7AB
2P1		BEA	SIN			F	2.0	185			0.2	120	120	2	4	0.7	1.8		150K				6X
2P1P		BEA	SIN	T5		F	1.2	120	90	15	0.8	90	90	4	10	2.2	2.0		100K	5.5	4.0		7AV
2P2	*	BEA	SIN			F	2.0	220			0.3	120	100	4	10	1.8	2.2		90K				
2P2P		BEA	SIN	T5		F	1.2	60	90	7	0.4	60	60	4	3	0.8	1.1	1	20K	3.7	3.8		7BA
2P3		BEA	SIN			F	2.0	230			0.5	160	120	6	10	1.7	2.0		80K				6X
2P5B		PND	SIN	T3B		F	2.4	90	180	25	2.3	90	90	4	12	1.2	3.3			7.1	4.7	100	
2P9M	*	BEA	SIN	T10		F	2.0	1000	300		8.0	250	150	5	35	1.5	2.5		40K	8.5	8.5		6X
2P19B		PND	SIN	T3B		F	2.2	70	200	15	1.0	120	90	5	8	3.5	1.7			4.5	7.0		PS6
2P29L		PND	SIN	T9		F	2.2	120	200	20	2.0	160	120	6	10	2.0	1.9		50K	4.3	5.5		PS2
2P29P		PND	SIN	T5		F	2.2	110	200	5	1.0	120	45	0	/2	0.4	1.2		100K	4.9	2.0	120	PS8
2S1		TRI	SIN			F	2.0	110	120		2.0	80		0	/6		1.5	14	9K	3.6	3.0		

GROUP II, RECEIVING TUBES

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E_f V	I_f mA	MAXIMUM E_b V	MAXIMUM I_b mA	MAXIMUM P_p W	TYPICAL E_b V	TYPICAL E_{g_2} V	TYPICAL E_{g_1} V	TYPICAL I_b mA	TYPICAL I_{g_2} mA	TYPICAL Sm mmho	TYPICAL μ	TYPICAL R_p Ω	CAPACITY IN pF	CAPACITY OUT pF	f_{max} MHz	BASE
2S2	TRI	SIN	T8		F	2.0	120	160		0.6	120			1		1.3	22	17K	2.8	2.7		5S
2S4S	TRI	SIN		PA	F	2.5	2500	360		15.0	300		62	40		4.0	4	800K	7.5	5.5		4D
2S14B	TRI	SIN	T3F		F	2.2	60	250	5	0.7	90		3	/4		1.8	15	8400	2.8	2.1	300	TS2
2S49D	TRI	SIN	LIT		H	2.4	480	300	50	4.0	250		1	15		6.0	62	500M	3.3	0.1		
2TS2S	DIO	SIN	S12		H	2.5	1750	12K	100		4K			7								4AC
2VD8	DIO	SIN				2.5	1750	12K	100													
2ZH1M *	PND	SIN			F	2.0	320			0.5	160	80	2	7	1.5	1.8						PS8
2ZH2M	PND	SIN	T9		F	2.0	60	160		0.5	120	70	/1	2	0.5	.9		1M	5.4	8.1		5Y
2ZH4 *	PND	SIN			F	2.0	275			1.2	200	100	7	14	2.4	1.8		110K				PS8
2ZH14B	PND	SIN	T3B		F	2.2	30	90	5	0.5	90	45	0	2	0.8	1.2			4.5	6.0		PS6
2ZH15B	PND	SIN	T3B		F	2.2	14	200	5	1.0	60	45	0	1	0.7	0.7			4.0	5.0		P4S
2ZH27L	PND	SIN	F10		F	2.2	57	200	5	1.0	120	45	0	2	0.5	1.2		700K	5.3	4.9		PS3
2ZH27P	PND	SIN	T5		F	2.2	57	200	5	1.0	120	45	0	1	0.5	1.0		/2M	4.5	2.0		PS4
2ZH28L	PND	SIN			F	2.2	28			1.0	120	45	0	2	0.5	1.2		/2M	5.4	4.8		PS3
EM-3	TET	SIN	T16		F	3.0	120				6	4	3	700	0.4	0.1	1		5.0			
3A4S	PND	SIN			F	3.2	100				150	90	0	13	2.2	1.9						P7S
3B4S	BEA	SIN	T5		F	3.2	150				180	150	20	30	2.5	2.4						P8S
3S1	TRI	SIN			F	2.5	1A				220		4	8		2.2	22	10K				
3S2	TRI	SIN			F	2.5	1A				220		10	15		2.4	11	4K				
3S9	TRI	SIN			F	2.5	1000			6.0	220		10	17		2.4	11		5.0	2.5		4F
3TS16S	DIO	SIN	T10		H	3.2	220	35K	80					1					1.9			4AC
3TS18P	DIO	SIN	T6		H	3.2	210	25K	15					8					1.5			DS3
3TS22S	DIO	SIN	T10	TV	H	3.1	400	36K	80					2								D7
EM4	TRI	SIN	T6	EL	F	1.3	24	10	500		8		3	300		/.1	2		3.5			
4D5S	DIO	SIN	T4		H	4.0	240				10			5								D12
4D17P	DIO	SIN			F	4.0	1750	200	16	1.0	60			7								D10
4E1	TET	SIN			F	4.0	75	200		2.0	160	80	0	3		.8	350		8.0	6.3		TE5
4E2	TET	SIN			F	4.0	150	200		2.0	160	80	0	/8		1.8	400		10.5	8.0		TE5
4E3	TET	SIN			H	4.0	1000	250			160	60	1	8	1.5	3.0		200K	6.5	4.5		
4F6S	BEA	SIN		PA	H	4.0	1100			10.0	250		16	34	6.0	2.5	200	80K				
4N1	TRI	DUO			F	4.0	2A			6.0	120		0	30	3.2							
4P1 *	PND	SIN				4.0	1A				240	140	11	22	6.0	2.1						
4P1L	PND	SIN	T10		F	4.2	325	250	50	7.5	200	150	20	50	10.0	6.0		30K	8.5	9.4	100	PS2
4P10S	PND	SIN				4.0	1750				315	210	7	63	1.4	8.5						
4S1	TRI	SIN			F	4.0	70				120		0	8		1.3	11	8K				

GROUP II, RECEIVING TUBES

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E_f V	I_f mA	MAXIMUM E_b V	MAXIMUM I_b mA	MAXIMUM P_p W	TYPICAL E_b V	TYPICAL E_{g_2} V	TYPICAL E_{g_1} V	TYPICAL I_b mA	TYPICAL I_{g_2} mA	TYPICAL S_m mmho	TYPICAL μ	TYPICAL R_p Ω	CAPACITY IN pF	CAPACITY OUT pF	f_{max} MHz	BASE
4S2	TRI	SIN			F	4.0	70				160		0	4		1.3	25	18K				
4S3	TRI	SIN			F	4.0	155	200		3.0	160		6	15		2.1	9		3.8	2.4		
4S3S	TRI	SIN	F9		H	4.4	330	300	30	5.0	100		4	27		3.0	12	4200	1.5	0.6	1K	TS3
4S4 *	TRI	SIN			F	4.0	1A			15.0	250		37	57		3.2	4	1K				
4S5	TRI	SIN			H	4.0	1A				240		3	6		1.7	32	20K				
4TS6S	DIO	SIN	T10		F	4.0	1750			1.0	50			7								DS4
4TS14S	DIO	SIN	T11		F	4.0	1750	60	20	1.2	60			7								DS4
4VD1	DIO	SIN			F	4.0	700				350			50								
4VKH1	DIO	TWN			F	4.0	2300	1K	560													
4VKH2	DIO	SIN				4.0	2000	/2K	1200													
4ZH1L	PND	SIN	F10		H	4.2	225	250	11	0.5	150	75	0	7	1.5	1.5		1M	4.0	4.2	200	PS1
4ZH1P	PND	SIN	F10		H	4.2	225	250	11	2.0	150	75	0	7								
4ZH5	TET	SIN			H	4.0	1000	250			120	40	1	/3	1.7	1.3		770K	14.0	4.5		
4ZH5S	PND	SIN		RF	H	4.0	1000				160	60		5	3.5	2.0			11.0	4.5		
6M-5	TET	DBA	T7	EL	H	3.1	115	5			5		3	850		/0.1	1		1.6			T2E
6P-5	TPI	SIN	T15	TV	H	6.3	210	30K	2				7	/2		0.6			1.5	4.0		T4S
5TS3S	DWD	SIN	S16		F	5.0	3000	17H	750		500			125								DW1
5TS4M	DIO	DUO	T11		H	5.0	2000	15H	415		400			133								DW4
5TS4S	DIO	DUO	T14		H	5.0	2000	13H	375		500			62								DW4
5TS8S	DWD	SIN	T17		H	5.0	5000	17H	1200	30.0	500			400								DW2
5TS9S	DWD	SIN	F13		H	5.0	3000	17H	600	12.0	500			190								DW2
5TS9SE	DWD	SIN	F13		H	5.0	3000	/2K	600	12.0	500			190								DW2
5TS12P	DIO	SIN	T7		H	5.0	770	5K	350	5.0	2K			50								DS1
5VKH2	DWD	SIN				5.0	2000	14H	375													
5VKH3	DWD	SIN				5.0	3000	15H	675													
6M-6	TET	DBA	T6	EL	H	4.5	75	5			5		3	700		/0.1	1		1.8			T2E
6G6S	REG	TRI	T12			6.3	825	25K	300U		20K		150	100U								D8
6A2P	PTG	SIN	T5	CN	H	6.3	300	330	14	1.1	250	100	/2	3	1.0	.3		100K	7.0	8.6		7CH
6A3P	GTB	SIN	T6	CN	H	6.3	300	150	20	1.2	75	75	4	/5	7.0	1.2			4.7	4.0		7DF
6A4P	PTG	DBA	T7	CN	H	6.3	440	250	20	2.0	200	100		34	26.0	16.0			10.5	2.8		P35
6A7	PTG	SIN	M8	CN	H	6.3	300	300	15	1.1	250	100	0	4	8.5	.4		500K	9.5	12.0		8R
6A8	PTG	SIN	M11	CN	H	6.3	300	330	15	1.0	250	100	0	4	2.7	.5		360K	12.5	12.5		8A
6A10S	PTG	SIN	M11	CN	H	6.3	300	330	15	1.1	250	100	0	4	9.0	.4		1M	9.0	10.0		8R
6B1P	DIO	PND	T7		H	6.3	400				150			15					9.0	4.0		PS5
6B1P	PND	DIO	T7		H	6.3	400			1.1	250	250	2	26	2.7	29.0			9.0	4.0		PS5

GROUP II, RECEIVING TUBES

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E_f V	I_f mA	MAXIMUM E_b V	MAXIMUM I_b mA	MAXIMUM P_p W	TYPICAL E_b V	TYPICAL E_{g_2} V	TYPICAL E_{g_1} V	TYPICAL I_b mA	TYPICAL I_{g_2} mA	TYPICAL Sm mmho	TYPICAL μ	TYPICAL R_p Ω	CAPACITY IN pF	CAPACITY OUT pF	f_{max} MHz	BASE
6B2P	PND	DIO	T7	RF	H	6.3	300			2.1	250	100	1	6	1.6	2.7		700K	4.2	4.1		PS5
6B8	PND	DWD	M10		H	6.3	300	275			250	125	3	10	2.4	1.6		750K	5.7	7.5		8E
6B8S	PND	DWD	S12	RF	H	6.3	300	275		2.5	250	125	3	10	2.4	1.3		600K	4.0	9.0		8E
6D3D	DIO	SIN	LIT		H	6.3	770	200	150					27							3G	DS2
6D4ZH	DIO	SIN	ACO		H	6.3	150	365	30		165			5					0.9			4G
6D6A	DIO	SIN	T2F		H	6.3	150	450	70	0.2	165			8					3.0			
6D8D	DIO	SIN	PEN		H	6.3	450	450	1800	/0.1											5G	
6D10D	DIO	SIN	PEN		H	6.3	750	100	30		100			10					3.5			
6D13D	DIO	SIN	PEN		F	6.3	210	450	550	1.0	150			150							48H	
6D14P	DIO	SIN	T22		H	6.3	1100	56H	600	4.5	20			175								9CB
6D15D	DIO	SIN	LIT		H	6.3	330	200	750	0.5									1.2			
6D16D	DIO	SIN	LIT		H	6.3	240	450	2000	1.0	100			14					2.0		3G	DS9
6D20P	DIO	SIN	T7T		H	6.3	1800	6K	600	5.0				223					9.0			98D
6D22S	DIO	SIN	TIO	TV	H	6.3	1900	6K	1000	8.0				300								D9
6E5P	TET	SIN	T6T		H	6.3	600	150	70	8.3	150	150	2	45	14.0	30.5		8K	15.0	2.6		TE1
6E6P	TET	SIN		CN	H	6.3	600			8.4	150	150		44	10.0	30.5		15K	15.0	5.8		9EQ
6E6P-YE	TET	SIN	T7		H	6.3	600	150	70	8.3	150	150	2	44	10.0	29.5		15K	15.0	2.7		TIE
6E7P	TET	SIN	T7	CN	H	6.3	750	5K	10	10.0	5K	25	2	2	0.1	1.6	2K		5.6	1.1		TE9
6E12N	TET	SIN	NUV	CN	H	6.3	130	250	20	2.2	125	50		10	3.6	10.0			7.1	1.6		TE8
6F1P	TRI	PND	T7		H	6.3	430	250	14	1.5	100		2	13		5.0	20	4K	2.5	0.3		9AE
6F1P	PND	TRI	T7		H	6.3	430	250	14	2.5	250	170	2	10	4.0	6.2		400K	5.5	3.4		9AE
6F3P	TRI	PND	T7		H	6.3	850	250	15	1.0	170		1	2		2.5	75	28K	2.2	0.4		PT5
6F3P	PND	TRI	T7		H	6.3	850	275	60	8.0	170	170	11	41	14.0	7.0		15K	9.3	8.5		PT5
6F4P	PND	TRI	T6		H	6.3	720	250	40	4.0	170	170	2	18	7.0	11.0		100K	9.5	4.0		PT4
6F4P	TRI	PND	T6		H	6.3	720	250	12	1.0	200		2	3		4.0	65	16K	4.0	0.6		PT4
6F5M	TRI	SIN	T10		H	6.3	300	350		4.0	250		2	1		2.0	100					5M
6F5P	TRI	PND	T7		H	6.3	900	250	15	0.5	100			5		7.0	70	10K	3.5	0.3		PT6
6F5P	PND	TRI	T7		H	6.3	900	300		9.0	185	185		41	2.7	7.5		23K	11.7	8.8		PT6
6F5S	TRI	SIN	T5		H	6.3	325			1.3	250		2	/2		2.0						
6F6M1	PND	SIN	T11		H	6.3	700				250	250	/17	46		2.9						7S
6F6S	PND	SIN	S14	PA	H	6.3	700	375		11.0	250	250	16	34	6.5	2.5			7.5	11.0		7S
6F7	TRI	PND	M11		H	6.3	300	110		0.5	100		3	3		.5	70					PT2
6F7	PND	TRI	M11		H	6.3	300	275		2.2	250	100	3	7	1.6	1.1						PT2
6F12P	TRI	PND	T7		H	6.3	360	250	22	3.5	150			13		20			3.6	0.8		PT7
6F12P	PND	TRI	T7		H	6.3	360	300	22	5.0	150	150		13	1.2	20			5.7	1.7		PT7

GROUP II, RECEIVING TUBES

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E_f	I_f	MAXIMUM			TYPICAL								CAPACITY		f_{max}	BASE
								E_b	I_b	P_p	E_b	E_{g_2}	E_{g_1}	I_b	I_{g_2}	Sm	μ	R_p	IN	OUT		
						V	mA	V	mA	W	V	V	V	mA	mA	mmho		Ω	pF	pF	MHz	
6G1	TRI	DWD	M10		H	6.3	300	275		2.7	250		9	9		1.9	16	8500	3.6	2.8		8Q
6G2	TRI	DWD	M10		H	6.3	300	330		0.9	250		2	1		1.1	100	91K	3.2	3.0		8Q
6G2P-K	TRI	DWD	T6		H	6.3	300				250		2	1		1.8	100					
6G3P	TRD	TRI	T6		H	6.3	450	350	75					10								TT1
6G3P	TRI	TRD	T6		H	6.3	450	300		1.0	250		3	1		1.3	63	48K	2.0	1.2		TT1
6G7	TRI	DWD	M10		H	6.3	300	330	1	1.0	250		3	1		1.3	70	54K	5.0	3.8		TD3
6I1P	PTG	TRI	T6O		H	6.3	300	300	12	1.7	250	100	2	38	6.5	.8		1M	5.1	7.4		9CA
6I1P	TRI	PTG	T6O		H	6.3	300	250	6	0.8	100		2	7		2.2	23	6K	2.6	2.0		9CA
6I3P	TRI	PTG	T6		H	6.3	300	250	10	1.0	100		2	/7		2.7	20		2.6	2.0		9CA
6I3P	PTG	TRI	T6		H	6.3	300	300	12	1.9	250	100	2	5	2.8	2.5		700K	5.1	7.4		9CA
6I14P	TRI	PTG	T6		H	6.3	300	250	12	0.8	100			11		4.0	23	6K	2.6	2.0		9CA
6I14P	PTG	TRI	T6		H	6.3	300	300	6	1.7	250	100	2	7	3.5	.8		1M	5.1	7.4		9CA
6K1B	PND	SIN	T3		H	6.3	200	150	15	1.2	120	120		8	4.0	4.8			5.1	3.8		
6K1L	PND	SIN	F11		H	6.3	150			1.0	150	75	2	3	0.9	1.3		700K	3.8	4.2		PS1
6K1P	PND	SIN	T5		H	6.3	150	275		1.8	250	100	3	6	2.7	1.8		400K	3.4	3.0		7CM
6K1ZH	PND	SIN	AC0		H	6.3	150	275		1.8	250	100	3	7	2.7	1.8		400K	3.0	3.0		
6K3	PND	SIN	M8		H	6.3	300	330		4.4	250	100	3	9	2.5	2.0		800K	6.0	7.0		8N
6K4	PND	SIN	M8		H	6.3	300	330		3.3	250	125	1	12	4.4	4.7		900K	8.5	7.0		8BK
6K4P	PND	SIN	T6		H	6.3	300	300	20	3.0	250	100	1	11	3.7	4.4		800K	6.5	5.5		7BD
6K6A	PND	SIN	T2B		H	6.3	127	150	15	1.3	120	100		9	4.0	4.5			2.8	2.5		P28
6K7	PND	SIN	M10		H	6.3	300	330		3.0	250	100	3	7	1.7	1.6		830K	7.0	12.0		7R
6K8B	PND	SIN	T6		H	6.3	300	30	15	0.5	25	12		/4	4.2	1.0		12K	6.7	4.1		7BD
6K8P	PND	SIN		RF	H	6.3	300			0.5	13	3		900U	0.2	1.1		190K	6.7	4.1		6CC
6K9S	PND	SIN	M10		H	6.3	300	330		4.4	250	100	3	9	2.5	2.0		800K	4.8	11.0		7R
6K11B-K	PND	SIN	T3B		H	6.3	200	150	15	1.2	120	120		8	4.0	4.8			3.9	2.8		P29
6K13P	PND	SIN	T7		H	6.3	300	250	20	2.5	200	90		12	4.5	12.5		500K	11.7	3.9		P20
6K14B	PND	SIN	T3B	RF	4	6.3	120				50	50	1	6	1.5	5.0			6.1	2.1		P26
6K14B-V	PND	SIN	T3B	RF	4	6.3	125	150	10	0.5	50	50	1	/6	1.5	5.0			6.1	2.1		P26
6KH2P	DIO	TWN	T6		H	6.3	300	450	90	0.5	150			35					3.8			6BT
6KH6B	DIO	TWN			H	6.3	300	100	4													DW9
6KH6S	DIO	TWN	T9		H	6.3	300	465	170		165			50					4.0			8AN
6KH7B	DIO	TWN	T3B		H	6.3	300	450	70	0.2	165			10					5.8			DW5
6L1P	HPT	SIN	T6B		H	6.3	320	300		3.0	150	150	0	/16	5.0				3.5	2.6		P37
6L7	PTG	SIN	M11	MX	H	6.3	300	330		1.5	250	100	3	5	6.6	1.1		1M	7.5	11.0		7T
6N1P	TRI	TWN	T6		H	6.3	600	300	25	2.2	250		4	8		4.3	35	11K	3.1	1.8		9AJ

GROUP II, RECEIVING TUBES

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E_f	I_f	MAXIMUM			TYPICAL								CAPACITY		f_{max}	BASE
								E_b	I_b	P_p	E_b	E_{g_2}	E_{g_1}	I_b	I_{g_2}	S_m	μ	R_p	IN	OUT		
						V	mA	V	mA	W	V	V	V	mA	mA	mmho		Ω	pF	pF	Mc	
6N2P	TRI	TWN	T6		H	6.3	340	300	10	1.0	250		1	2		2.1	98	47K	2.4	3.0		9AJ
6N3P	TRI	TWN	T6		H	6.3	350	300	18	1.5	150		2	8		5.9	37	6K	2.7	1.4		8CJ
6N4P	TRI	TWN	T6		H	6.3	300	300	10	1.5	250		4	3		1.7	47	23K	1.5	1.6		9AJ
6N5P	TRI	TWN	T6		H	6.3	600	300	25	2.2	200		5	8		4.2	27	6500	3.0	1.7		9AJ
6N5S	TRI	TWN	S16	PA	H	6.3	2500	250	125	13.0	90		30	62		5.0	3	460	9.5	5.0		8BD
6N6P	TRI	TWN	T7		H	6.3	750	300	45	4.8	120		2	30		10.5	20	1800	4.4	1.9		9AJ
6N7	TRI	TWN	M9		H	6.3	800	300		1.0	250			7		2.0	32	16K				
6N7S	TRI	DUO	T9		H	6.3	810	300		4.2	250		6	7		3.2	35	11K	1.6	3.2		8B
6N8S	TRI	TWN	T10		H	6.3	600	330	20	2.7	250		8	9		2.6	20	8K	2.8	3.8		8BD
6N9S	TRI	TWN	T10		H	6.3	300	275		1.1	250		2	2		1.6	70	44K	3.0	2.8		8BD
6N10S	TRI	DUO	T11		H	6.3	300	275		11.0	250		2	2		1.3	70	54K	1.4	0.2		8S
6N12S	TRI	TWN	T11		H	6.3	900	300	34	4.2	180		7	23		6.4	17	2700				8BD
6N13S	TRI	TWN	S16		H	6.3	2500	250	130	13.0	90		30	80		5.0	2	460	7.0	9.0		8BD
6N14P	TRI	TWN	T6		H	6.3	350	300	22	1.5	90		1	10		6.8	25	3200	4.9	2.9		9DD
6N15 *	TRI	TWN			H	6.3	450				100			9		5.6	38					
6N15P	TRI	TWN	T5		H	6.3	450	330	40	1.6	100		/1	9		5.6	38	6800	2.3	0.5		7BF
6N16B	TRI	TWN	T3B		H	6.3	400	200	14	0.9	100		2	6		5.0	25	5K	2.5	1.6		TD1
6N17B	TRI	TWN	T3B		H	6.3	400	250	10	0.9	200		1	3		3.8	75	20K	2.8	1.5		TD1
6N18B	TRI	TWN	T3B		H	6.3	330	200	14	0.9	100			6		5.0	25	325K	2.6	1.5		TD1
6N19P	TET	TWN	T7		H	6.3	650	250	50	2.0	150			14		13.5		25K	3.8	1.2		
6N21B	TRI	TWN	T3		H	6.3	395	250		1.0	200			/4		3.8	82		2.8	0.6		T21
6N23P	TRI	TWN	T7		H	6.3	300	300	20	1.8	120			15		12.7	32		3.6	2.1		9AJ
6N24P	TRI	TWN	T7		H	6.3	300	300	20	1.8	90		9	15		12.5	33		6.3	3.2		9DD
6N25G	TET	TWN	T4B		H	6.3	350	200	30	1.2	75			/10		1.5	18		1.1	0.7		T20
6N26P	TRI	TWN	T6		H	6.3	600	250	30	2.6	150			14		9.5	48	5K	4.0	2.2		8CJ
6N27P	TRI	TWN	T6B		H	6.3	330	30	20	0.6	25		0	8		8.0	16		3.0	2.0		9AJ
6N28B	TRI	TWN		RF	H	6.3	200			0.9	50		1	7		6.8	25		3.0	2.3		T19
6N28B-V	TRI	TWN	T3B		H	6.3	245	150	10	0.9	50		1	7		6.7	24		2.6	1.8		T19
6P1P	BEA	SIN	T7		H	6.3	500	250	70	12.0	250	250	12	44	7.0	4.9		50K	7.8	5.7		PS9
6P2P	PND	SIN				6.3	450				120	120	5	35	12.0	8.0						6CC
6P3S	BEA	SIN	T14		H	6.3	900	400	90	20.0	250	250	14	72	8.0	6.0		22K	11.0	8.2		7S
6P4	PND	SIN			H	6.3	300				180	180	9	15		2.3			5.5	7.0		
6P6B	PND	SIN			H	6.3	700	375			250	250	16	34	6.5	1.5			6.0	12.0		7S
6P6S	BEA	SIN	T9	PA	H	6.3	450	350	100	13.2	250	250	12	46	7.5	4.1		52K	9.5	9.5		7S
6P7S	BEA	SIN	T16		H	6.3	900	6K	100	20.0	250	250	14	72	8.0	5.9		32K	11.5	6.0		5BT

GROUP II, RECEIVING TUBES

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E_f	I_f	MAXIMUM E_b	MAXIMUM I_b	MAXIMUM P_p	TYPICAL E_b	TYPICAL E_{g_2}	TYPICAL E_{g_1}	TYPICAL I_b	TYPICAL I_{g_2}	TYPICAL S_m	TYPICAL μ	TYPICAL R_p	CAPACITY IN	CAPACITY OUT	f_{max}	BASE
						v	mA	v	mA	w	v	v	v	mA	mA	mmho		Ω	pF	pF	Mhz	
6P8S	PND	SIN	T11		H	6.3	300				180	180	9	15		2.4						7S
6P9	BEA	SIN	M10	PA	H	6.3	650	330		9.0	300	150	3	30	6.5	11.7		80K	13.0	7.5		8Y
6P9E	BEA	SIN	M10	PA	H	6.3	560	330		9.0	300	150	3	25	5.8	11.2		100K				8Y
6P13S	BEA	SIN	T10		H	6.3	1300	450	130	14.0	200	200	19	60	8.0	9.5		25K	14.0	18.0		5BT
6P14P	BEA	SIN	T6		H	6.3	760	300	66	12.0	250	250	6	48	7.0	11.3		20K	11.0	7.0		9CV
6P15P	BEA	SIN	T6		H	6.3	760	330	90	12.0	300	150	2	30	4.5	14.7		100K	14.0	7.0		P1S
6P17S	BEA	SIN			H	6.3	900	500		20.0	250	250	14	72	8.0	5.9		32K	11.5	6.0		
6P18P	BEA	SIN	T6		H	6.3	760	250	75	12.0	170	170	6	53	8.0	11.0		23K	11.5	6.0		9CV
6P20S	BEA	SIN	S16		H	6.3	2500	450	200	27.0	175	175	30	90	6.0	8.5		7K	24.0	10.0		5BT
6P21S	BEA	SIN	T12		F	6.3	750	600	100	18.0	600	200	16	36	5.0	4.0		20K	8.2	6.5	80	P14
6P23S	BEA	SIN	T6		F	6.3	750	350	100	11.0	300	200	16	40	5.0	4.5		44K	7.5	4.5	180	P38
6P25B	PND	SIN	T3B		H	6.3	450	170	50	4.1	110	110	8	30	5.0	4.5			6.7	6.8		P30
6P27S	BEA	SIN	T12		H	6.3	1500	800	150	27.5	250	265	13	100	15.0	10.0		15K	15.0	11.0		7S
6P30B	PND	SIN	T3B		H	6.3	465	250	60	5.5	120	120		35	2.0	4.5			12.0	4.2		P22
6P31S	BEA	SIN	T11		H	6.3	1300	600	200	10.0	100	100	9	80	8.5	12.5		4K	18.0	8.5		P57
6P33P	PND	SIN	T6		H	6.3	900	250	100	12.0	170	170	12	70	6.5	10.0		25K	12.0	7.0		9CV
6P34S	PND	SIN	T11		H	6.3	2000	250	150	18.0	180	180	14	70	8.5	13.0			21.0	11.0		P23
6P36S	BEA	SIN	T13		H	6.3	2000	250	250	17.0	100	100	7	120		20.0		4500	36.0	21.0		P21
6P37N	PND	SIN	NUV		H	6.3	1210	200	400	15.0	100	100	9	100	22.5	18.0			20.0	2.3		
6P42S	BEA	SIN	T15	TV	H	6.3	2100	7K	700	24.0	150	150		20					13.5	38.0		P21
6R2P	BEA	DUO			H	6.3	600			6.5	200	200	16	20	2.0	2.5			4.5	2.0		PD7
6R3S	BEA	DUO			H	6.3	2000			20.0	350	250	30	45		4.5			10.0	4.0		PD8
6S1P	TRI	SIN	T6	RF	H	6.3	150	275	20	1.8	250		7	6		2.2	26	11K	1.4	1.1		7BS
6S1ZH	TRI	SIN	ACO		H	6.3	150	275		1.8	250		7	6		2.2	26	11K	1.0	0.6	600	T3S
6S2B	TRI	SIN	T3B		H	6.3	250	250	40	2.5	150			11		11.0	50		6.5	4.4		T12
6S2P	TRI	SIN	T5		H	6.3	400	165		2.5	150		1	14		11.5	48	4200	5.3	4.2		7BQ
6S2S	TRI	SIN	T9		H	6.3	300	330	20	2.7	250		8	9		2.5	20	8000	3.0	4.5		6Q
6S3B	TRI	SIN	T3F		H	6.3	150	300	12	2.5	270			8		2.2	14	6400	2.5	3.9		
6S3P	TRI	SIN	T6		H	6.3	300	160	35	3.0	150		1	16		20.0	50	2600	6.5	1.5		TS4
6S4B	TRI	SIN	M9		H	6.3	300			0.4	250			1		1.5	100	66K	2.0	12.0		5M
6S4P	TRI	SIN	T6		H	6.3	300	160	35	3.0	150		1	16		20.0	50	2600	11.5	3.7		TS4
6S4S	TRI	SIN	S16	PA	F	6.3	1000	360		15.0	250		45	60		5.4	4	840				5S
6S5	TRI	SIN	M11		H	6.3	300			1.2	250		8	8		2.2	20		3.0	11.0		6Q
6S5D	TRI	SIN	LIT		H	6.3	770	300	25	6.5	250		3	15		5.0	42	9K	2.3	0.5	36	6BY
6S5S	TRI	SIN	T10		H	6.3	300	350		2.7	250		6	8		2.2	20	9K	3.8	12.0		6Q

GROUP II, RECEIVING TUBES

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E_f	I_f	MAXIMUM			TYPICAL								CAPACITY		f_{max}	BASE
								E_b	I_b	P_p	E_b	E_{g_2}	E_{g_1}	I_b	I_{g_2}	Sm	μ	R_p	IN	OUT		
						V	mA	V	mA	W	V	V	V	mA	mA	mmho		Ω	pF	pF	MHz	
6S6B	TRI	SIN	T3F		H	6.3	200	250	14	1.4	120		2	9		5.0	25	5K	3.3	3.5	500	
6S7B	TRI	SIN	T3F		H	6.3	200	300	7	1.4	250		2	/5		4.0	65	16K	3.3	3.4		
6S8S	TRI	SIN	T10		H	6.3	300	500		3.6	300		10	11		3.0	20	6700	2.2	0.6		T5S
6S9D	TRI	SIN	LIT		H	6.3	570	300	25	5.5	250		1	15		10.0	100	10K	2.9	/0.1	900	6BY
6S10D	TRI	SIN	LIT		H	6.3	920	5K	8500	9.0											3G	6BY
6S11D	TRI	SIN	PEN		H	6.0	176	120	30	3.6	110		2	20		6.5	17	2500	2.5	0.1	18H	
6S13D	TRI	SIN	MCR		H	6.3	770	350	35	9.0	300		4	21		5.2	32	6200	2.7	/0.1	36H	
6S15P	TRI	SIN	T6		H	6.3	440	160	52	7.5	150			40		45.0	52		10.5	1.5		T2S
6S16D	TRI	SIN	PEN		H	6.3	192	170	35	3.6	135		4	12		6.0	17	2800	2.5	0.1	18H	
6S17K	TRI	SIN	MCR		H	6.3	295	200	11	2.0	175		1	10		12.0	125	10K	3.5	/0.1		
6S18S	TRI	SIN	T20		H	6.3	6600	450	500	60.0	120		20	550		40.0	2	60				T5G
6S19P	TRI	SIN	T7		H	6.3	1000	350	110	11.0	100		20	95		7.5	4	500	6.5	6.0		T5T
6S20S	TRI	SIN	T13		H	6.3	200	25K	/2	25.0	25K		8	1		.2	2K	10M				T5H
6S21D	TRI	SIN	PEN		H	6.3	176	200		3.6	110		2	20		6.5	16	2500	2.5	0.7	18H	
6S25B	TRI	SIN	T3B		H	6.3	220	250	15	1.4	120			8		5.0	29	220K	3.3	3.5		
6S26B	TRI	SIN	T3B		H	6.3	200	250	15	1.4	120		2	9		5.0	25	220K	3.3	3.5		
6S27B	TRI	SIN	T3B		H	6.3	200	300	7	1.4	250			/5		4.0	65	16K	3.3	3.4		
6S28B-V	TRI	SIN	T4B		H	6.3	310	50	35	2.4	120			16		19.0	40	2500	5.8	2.2		T2S
6S29B-V	TRI	SIN	T4B		H	6.3	310	150	35	2.4	120			16		19.0	40	2500	9.5	3.9		T2G
6S30B	TRI	SIN	T3B		H	6.3	425	200	60	5.0	50			40		21.0	17	800K	7.0	1.5		
6S31B	TRI	SIN	T3B		H	6.3	220	100	60	2.5	50		0	40		18.0	17		4.1	1.5		T1J
6S32B	TRI	SIN	T3B		H	6.3	165	250	10	1.5	200			4		3.5	100		2.8	0.7		T1K
6S33B	TRI	SIN	T20		H	6.3	6600	600	600	60.0	120			550		40.0		80	30.0	9.0		T1G
6S34A-V	TRI	SIN	T2B		H	6.3	127	200	15	1.1	100			8		4.6	25		2.0	2.3	480	T2B
6S35A-V	TRI	SIN	T2B		H	6.3	127	300	7	0.9	200			3		4.0	70	17K	2.0	2.4		T2B
6S36K	TRI	SIN	C5		H	6.3	320	300	10	3.0	250		/1	6		8.0	145	18K	3.5	0.2	9K	
6S37B	TRI	SIN	T3B		H	6.3	440	120	70	4.5	80			40		16.5	13	800K	6.0	4.7		T2B
6S39S	TRI	SIN	T20	VR	H	6.3	200	30K	/3	75.0	30K		45	/3		.2	500		3.5	1.2		T1I
6S40P	TRI	SIN	T7		H	6.3	170	20K	500U	6.0	20K		14	300U		0.2	1K		2.5	0.5		T1S
6S41S	TRI	SIN	T13		H	6.3	2700	450	300	25.0	90			250		21.0			11.0	5.0		T1G
6S44D	TRI	SIN	PEN		H	6.3	330	300	80	8.0	250			26		6.0	25		4.0	0.1	3G	
6S45K	TRI	SIN			H	6.3	310				18H			500		13.0			2.8	10.1		
6S45P-Y	TRI	SIN	T7		H	6.3	440	150	52	7.8	150			40		45.0	52		11.5	1.9		T2S
6S46G	TRI	SIN	T4B		H	6.3	500	250	100	4.5	42		1	60		20.0	7		6.0	1.7		T2S
6S47S	TRI	SIN	T17		H	6.3	6200	600	3000	33.0	90			400		45.0			37.0	7.0		T5G

GROUP II, RECEIVING TUBES

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E_f V	I_f mA	MAXIMUM E_b V	MAXIMUM I_b mA	MAXIMUM P_p W	TYPICAL E_b V	TYPICAL E_{g_2} V	TYPICAL E_{g_1} V	TYPICAL I_b mA	TYPICAL I_{g_2} mA	TYPICAL S_m mmho	TYPICAL μ	TYPICAL R_p Ω	CAPACITY IN pF	CAPACITY OUT pF	f_{max} MHz	BASE
6S48D	TRI	SIN	PEN		H	6.3	95	150	10	3.0	50		0	5		3.5	40		3.0	/0.1		
6S50D	TRI	SIN	PEN		H	6.3	365	15H	3000	8.0	250		4	22		6.0	32		4.0	0.1		
6S51N	TRI	SIN	NUV		H	6.3	130	110	15	1.0	75			10		11.2	32		4.7	2.2	800	
6S52N	TRI	SIN	NUV		H	6.3	130	125	15	1.0	110			8		10.0	64		4.7	2.4	800	
6S53N	TRI	SIN	NUV		H	6.3	130	130	15	1.2	120			9		12.0	75		4.2	1.5	800	
6SK7	TRI	PND			H	6.3	300				100		3	3		.5	8		2.5	3.0		
6SK7	PND	TRI			H	6.3	300				250	100	3	6		1.1			3.2	12.5		
6TS4P	DWD	SIN	T6		H	6.3	600	1K	300	3.0	350			75								DW6
6TS4S	DIO	SIN			H	6.3	600	1K	300					75								
6TS5S	DWD	SIN	T10		H	6.3	600	11H	300		400			75								DW7
6TS10P	DIO	SIN	T6		H	6.3	1050	45H	450		1K			120					5.0			9BD
6TS13P	DIO	SIN	T7		H	6.3	950	16H	900	8.0	650			120								6BY
6TS15S	DIO	TWN	T13		H	6.3	1430	1K	375		350			62								8AN
6TS17S	DIO	SIN	T10		H	6.3	1800	4K	1200					250								DS8
6TS19P	DIO	SIN	T7		H	6.3	1100	/5K	450		700			120					8.0			9BD
6V1P	PND	SIN	T6	SM	H	6.3	400	550		4.5	250	250	2	26	2.7	29.0			9.0	4.6		PS5
6V2P	PND	SIN	T7	SM	H	6.3	1800	600	1500	3.0	600	300	25			H2.2			26.0	15.0		PD9
6V3S	PND	SIN	T7	SM	H	6.3	900	700	1500	5.0	700	400	25	1200	8H	H2.0			15.0	14.0		P34
6VKH1	DWD	SIN			H	6.3	600	1K	200					70								DW7
6YE1P	TRI	SIN	T5	ID	H	6.3	300	250		0.2	100		2	2		0.5	24					ID1
6YE2P	TRI	SIN	T7	ID	H	6.3	580	250		0.4	150		4	/2		1.4			3.0	7.0		ID3
6YE3P	TRI	SIN	T6	ID	H	6.3	230	300	3	0.5	230		0	/1								ID2
6YE5S	TRI	SIN	T11	ID	H	6.3	300	250			250		4	5		1.2	24					8B
6ZH1B	PND	SIN	T3F		H	6.3	200	150	14	1.2	120	120		/8	3.5	4.8		200K	4.8	3.8		
6ZH1L	PND	SIN	F10		H	6.3	150			2.0	150	75	2	2	0.2	1.5		1M	4.0	4.2	200	PS1
6ZH1P	PND	SIN	T6	UF	H	6.3	170	200	20	1.8	120	120	2	7	3.0	5.2		300K	4.3	2.4	120	7BD
6ZH1ZH	PND	SIN	AC0		H	6.3	150	250		0.5	250	100	3	2	0.7	1.6		1M	3.5	3.0		
6ZH2B	PND	SIN	T3F	RF	H	6.3	200	150	14	0.9	120	120	2	/6	6.0	3.2		500K	4.9	4.1		
6ZH2M	PND	SIN	T6	RF	H	2.0	60			0.5	120	70	/1	2	0.5	.9			5.4	8.1		
6ZH2P	PND	SIN	T6	RF	H	6.3	170	200	20	1.8	120	120	0	6	5.0	3.9		100K	4.5	2.4		7CM
6ZH3	PND	SIN	M8	RF	H	6.3	300	330		3.3	250	150	1	11	4.0	4.9		900K	8.5	7.0		8BK
6ZH3M	PND	SIN			H	6.3	450	300		3.0	300	200		10	2.5	5.0		700K	11.0	5.0		8N
6ZH3P	PND	SIN	T6	UF	H	6.3	325	330	20	2.5	250	150	/2	7	2.0	5.0		800K	6.5	1.5		7BD
6ZH4	PND	SIN	M10		H	6.3	450	330		3.3	300	150	0	10	2.2	9.0		900K	11.0	5.0		8N
6ZH4E	PND	SIN	M10		H	6.3	450	330		2.5	300	150	0	9	2.2	8.5						8N

GROUP II, RECEIVING TUBES

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E_f	I_f	MAXIMUM			TYPICAL								CAPACITY		f_{max}	BASE
								E_b	I_b	P_p	E_b	E_{g_2}	E_{g_1}	I_b	I_{g_2}	Sm	μ	R_p	IN	OUT		
						V	mA	V	mA	W	V	V	V	mA	mA	mmho		Ω	pF	pF	MHz	
6ZH4P	PND	SIN	T5		H	6.3	300	300	20	3.5	250	150	1	11	4.3	5.7		900K	6.3	6.3		7BK
6ZH5A *	PND	SIN			H	6.3	450				250	100		10	2.5	9.0						7BK
6ZH5B	PND	SIN	T3F		H	6.3	250	150	28	2.6	120	120	2	15	6.0	10.0		100K	6.0	4.0		
6ZH5P	BEA	SIN	T6		H	6.3	450	300	20	3.6	300	150	2	10	2.0	9.0		350K	8.5	2.2		7BK
6ZH6S	PND	SIN	M10		H	6.3	500			2.5	250	100	2	10	2.5	7.5		2M	9.5	6.2		7R
6ZH7	PND	SIN	M10	RF	H	6.3	300	330		0.8	250	100	3	2	0.6	1.2		1M	7.0	12.0		7R
6ZH8	PND	SIN	S11	RF	H	6.3	300	330		2.8	250	100	3	3	0.8	1.6		2M	6.0	7.0		8N
6ZH8S	PND	SIN			H	6.3	300				100	100	3	3	0.9	1.6						8Y
6ZH9B	PND	SIN	T4F		H	6.3	310	150	26	2.4	120	120		15	5.5	17.0			7.5	3.3		
6ZH9G	PND	SIN	T4B		H	6.3	310	150	35	2.4	120	120		15	5.5	17.0			7.5	3.4		
6ZH9P	PND	SIN	T6		H	6.3	300	250	35	3.0	150	150	1	15	5.0	17.5		100K	8.5	3.3		9EQ
6ZH10B	PND	SIN	T3F		H	6.3	250	150	28	2.2	120	120	1	/11	6.0	5.0		100K	6.5	4.5		
6ZH10P	PND	SIN	T6		H	6.3	300	250	35	3.0	200	100	1	6	5.5	9.5		100K	8.9	3.9		9EQ
6ZH11P	PND	SIN	T6		H	6.3	440	150	40	4.9	150	150	/2	25	5.0	28.0		30K	14.0	3.5		9EQ
6ZH13L	PND	SIN	M12		H	6.3	400				250	250	2	10	1.4	7.5						P18
6ZH20P	PND	SCG	T7		H	6.3	450	250		3.0	150	150	1	16	6.0	16.5		100K	8.5	2.5	245	P31
6ZH21P	PND	SCG	T7		H	6.3	350	200		2.5	150	150	1	15	5.0	15.0		60K	5.9	1.9	400	P32
6ZH22P	PND	SCG	T7		H	6.3	500	200		5.5	150	150	1	30	7.5	23.0		60K	9.3	2.4	440	P32
6ZH23P	PND	DBA	T7		H	6.3	440	150	40	2.4	150	150	2	14	7.5	14.0		36K	14.0	3.5		PD3
6ZH31BK	PND	SIN	T3F		H	6.3	200	150	14	1.3	120	120		/8	3.5	5.0			4.8	3.8		
6ZH32B	PND	SIN	T3B		H	6.3	165	250	10	1.2	120	120		6	1.4	6.0			5.4	2.3		P24
6ZH32P	PND	SIN	T6		H	6.3	200	300	6	1.0	250	140	2	3	1.0	1.8		3M	4.0	5.5		P17
6ZH33AV	PND	SIN	T2B		H	6.3	127	150	15	1.3	120	100		8	4.0	4.5		120K	3.6	3.3		P28
6ZH35BV	PND	SIN	T3		H	6.3	127	150	15	0.9	120	110	2	6	6.5	3.1			4.6	3.5		PS5
6ZH38P	PND	SIN	T6		H	6.3	180	250	25	2.5	120	120		9	2.3	9.0		200K	5.8	2.4		7BK
6ZH39G-	PND	SIN	T4B		H	6.3	440	200	60	3.3	100	100		25	10.0	28.0			13.5	3.5		
6ZH40P	PND	SIN	T6		H	6.3	300	30	15	0.5	25	25	3	8	3.3	3.8			6.7	4.1		7CM
6ZH43P	PND	DBA	T6		H	6.3	475	150	46	3.1	150	150	16	/15	6.5	14.5		36K	13.5	3.0		PD3
6ZH44P	PND	SCG	T6		H	6.3	550	165	120	4.5	150	150		25	11.0	25.0			8.6	3.6		P25
6ZH45BV	PND	SIN	T3B		H	6.3	125	150	10	0.5	50	50	1	/6	1.5	5.4			6.1	2.1		P26
6ZH46BY	PND	SIN	T3B		H	6.3	125	150	10	0.5	50	50	1	/6	1.8	4.5			6.1	2.1		P36
6ZH49P-	PND	SIN	T6		H	6.3	300	150	22	2.8	150	150		14	2.4	16.7		100K	8.2	2.7		P33
6ZH52P	PND	SIN	T7		H	6.3	330	350	60	10.0	150	150		40		55			13.5	1.8		9EQ
6ZH53P	PND	SIN	T6		H	6.3	175	300	22	3.5	150	150		13		20			5.7	1.7		7BD
EM7	TRI	SIN	T3B	EL	F	1.0	18	8			7		2	200U		/.1	/2		1.6	1.9		

GROUP II, RECEIVING TUBES

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E_f	I_f	MAXIMUM			TYPICAL								CAPACITY		f_{max}	BASE
								E_b	I_b	P_p	E_b	E_{g_2}	E_{g_1}	I_b	I_{g_2}	S_m	μ	R_p	IN	OUT		
						V	mA	V	mA	W	V	V	V	mA	mA	mmho		Ω	pF	pF	MHz	
7P12S	PND	SIN	S12		H	7.3	850	200	60	8.0	135	135	15	31	7.0	2.8			7.7	9.5		5F
7ZH12S	PND	SIN	S12		H	7.3	425	250		1.9	250	135	3	5	1.1	1.8		500K	6.1	15.0		6F
EM-8	PND	SIN	T3B	EL	H	6.3	100	20			15	15	/3	2	1.3	0.8	30		4.5	3.5		P39
10P12S	PND	SIN	S12		H	10.0	640	200	60	8.0	180	135	15	31	7.0	2.1		20M	7.7	9.7		5F
10ZH1L	PND	SIN	F10		H	10.0	93	250	11	2.0	150	75	2	7	0.5	1.6		1M	4.0	4.2	200	PS1
10ZH3L	PND	SIN	F10		H	10.0	93	250	11	2.0	150	75	2	7	0.5	1.6		1300	4.0	4.2	200	PS1
10ZH12S	PND	SIN	S12		H	10.0	320	250		1.9	250	135	3	6	1.0	1.8		500M	6.1	15.0		6F
12B1M	PND	DWD			H	12.5	220				25	25	1	1	0.4	1.9		7500				PD5
12B2M	PND	DWD			H	12.5	150				25	25	1	1	0.3	.8		150K				PD6
12G1	TRI	DWD			H	12.6	150	275		2.7	250		9	9		1.9	16	8500	3.6	2.8		8Q
12G2	TRI	DWD			H	12.6	150	330		0.9	250		2	1		1.1	100	90K	3.2	3.0		8Q
12K1M	PND	SIN			H	12.5	225				25	25	/2	2	0.5	1.4		200K				7R
12K3	PND	SIN			H	12.6	150	330		4.4	250	100	1	9	2.5	2.0		800K	6.0	7.0		8N
12KH3S	DWD	SIN	F10		H	12.6	73	250	20	0.1				1					0.5		1G	DW8
12M1M	PND	TRI			H	12.5	225				25	25	1	1	0.3	1.9		7500				PT3
12N4P	TRI	TWN			H	12.6	150			1.5	250		4	3		1.8	40	22K	1.6	1.6		9AJ
12N10S	TRI	DUO	T11		H	12.6	150	275		1.1	250		2	2		1.3	70	54K	1.5	0.2		8S
12N11S	TRI	TWN			H	12.6	150			1.8	180		6	7		1.9	16	8500	3.2	2.6		8BE
12P4S	PND	SIN	T11		H	12.6	160				250	250	12	38		3.8						7S
12P14S	BEA	SIN			H	12.6	150			7.5	250	250	12	30		3.0			9.0	9.0		7S
12P17L	PND	SIN	F11		H	12.6	325	250	60	7.5	150	150	20	35	5.0	7.0			10.0	8.5	120	P3S
12S2	TRI	SIN			H	12.6	150				250		8	9		2.0	20		3.4	3.6		8T3
12S3S	TRI	SIN			H	12.6	100	300		5.0	100		4	27		3.0	12	4100	1.5	0.6	11H	TS3
12S42S	TRI	SIN			H	12.6	4900				120			1000		60.0			40.0	15.0		T17
12ZH1L	PND	SIN	F10		H	12.6	75	250	11	2.0	150	75	2	7	0.5	1.6		1M	4.0	4.2	200	PS1
12ZH1M	PND	SIN			H	12.5	225				25	25	/2	2	0.5	1.4		200K				7R
12ZH3L	PND	SIN	F10		H	12.6	75	250	11	2.0	150	75	2	7	0.5	1.6		1300	4.0	4.2		PS1
12ZH8	PND	SIN	F10		H	12.6	150	330		2.8	250	100	3	3	0.8	1.6		2M	6.0	7.0		8N
13P1S	BEA	SIN		PA	H	13.0	765			6.0	110	80	2	52		7.5			15.5	10.5		
15A6S	PND	SIN			H	15.0	300				180	135		48		2.5		30K				
25P1	BEA	SIN			H	25.0	300			10.0	110	110		80		8.5						
25P1S	BEA	SIN			H	25.0	300			10.0	110	110		80		8.5						
30P1S	BEA	SIN	T11	PA	H	30.0	300	110		7.0	110	110	7	70	12.0	10.0		9K	19.0	11.0		7S
30TS1M	DIO	SIN			H	30.0	300	300	500				250	90				2500				5AA
30TS6S	DIO	TWN			H	30.0	300	300	500		150			60								8AN

GROUP II, RECEIVING TUBES

TYPE	NUMBER		KIND	TYPE	BULB	USE	CATHODE	E_f	I_f	MAXIMUM E_b	MAXIMUM I_b	MAXIMUM P_p	TYPICAL E_b	TYPICAL E_{g_2}	TYPICAL E_{g_1}	TYPICAL I_b	TYPICAL I_{g_2}	TYPICAL S_m	TYPICAL μ	TYPICAL R_p	CAPACITY IN	CAPACITY OUT	f_{max}	BASE
								v	mA	v	mA	w	v	v	v	mA	mA	mmho		Ω	pF	pF	MHz	
30VD1			DIO	SIN				25.0	300	500	500													4BQ
30VKH1			DIO	TWN			H	30.0	300	500	500		150			60								8AN
SB-47			PND	SIN			H	4.0	150				160	120	1	5	0.7	1.6		250K				
SB-51			PND	SIN			H	4.0	80				240	80	1	3	0.6	1.0		600K				
SO-57			PND	SIN			H	4.0	1A				240	100	1	3	0.8	3.0		500K				
SB-112			PND	SIN			H	4.0	80				160	80	1	2	0.6	.6		500K				
SO-124			PND	SIN			H	4.0	1A				160	60	2	5	3.5	2.0						
UB-132		*	TRI	SIN			F	4.0	150			3.0	160		6	15		2.1	9	4K				
TO-141		*	TRI	SIN	S17		F	2.6	1000				220		3	14		2.6						4F
TO-142		*	TRI	SIN	S17		F	2.6	1000				220		7	23		2.5						4F
SO-148			PND	SIN			H	4.0	1A				240	80	2	7	1.0	1.6		200K				
SB-152			TRI	SIN			F	2.0	120				100		/2	/5		1.5	14	10K				
UB-152			TRI	SIN			F	2.0	120				120		4	6		3.0	14	5K				
UB-153			TRI	SIN			F	2.0	200				100		6	8		2.5	10	4K				
SB-154			PND	SIN			F	2.0	90				160	60	1	3	0.4	1.2		290K				
UB-155		*	BEA	SIN			F	2.0	230			0.2	100	60	2	6	1.5	2.1		100K				
UB-178			TRI	SIN			F	2.0	120				100		/1	2		1.1	33	30K				
SO-182			PND	SIN			H	4.0	1100				240	100	1	7	2.0	2.5		800K				
UB-182		*	TRI	SIN			F	4.0	150			3.0	240		6	12		2.4	9	4K				
UU186		*	TRI	SIN	S16		F	4.0	1000			15.0	250		37	57		3.2	4	1K				4F
SB-190			PND	SIN			F	2.0	100				160	120	1	1	0.4	1.2		420K				5Y
191P			TET	SIN	T6	EL	H	1.0	46				6	3	4	100		50.0						TE2
UB-240			TRI	SIN			F	2.0	120			0.6	120			3		1.5	22	14K	2.8	2.8		5S
SO-242			PTG	SIN	S9	CN	H	2.0	160	300	14	1.0	120	70	0	3	.2	.1			7.0	8.6		7Z
SO-243		*	TRI	TWN			F	2.0	240			1.5	120			3		2.1	32	16K	2.8	3.4		7AB
SO-244			PND	SIN			F	2.0	185			1.5	120			4		1.8	270	150K	55.0	7.0		6X
SO-257		*	PND	SIN	S10		F	2.0	300				200	100	7	18		1.3						P19
SO-258		*	PND	SIN			F	1.8	320			1.3	160	120	6	2		2.0	160	80K	5.4	7.5		6X
M-457		*	TRI	SIN			F	4.0	2100			50.0	1K		72	70		7.0	8	1K				
1504			TRI	SIN	LIT		H	6.3	770	300	25	6.5	250			25		4.7	42	9K	2.3	0.5	36	
1506			BEA	TWN	T19		H	12.6	1120	500		15.0	400			110								7BP
1509			BEA	TWN	T19		H	12.6	800	500		15.0	500			72								7BP
1511			PND	SIN	M10		H	6.3	450	330		3.3	300	150	0	10	2.2	9.0		900K				8N
1512			PND	SIN	M10		H	6.3	650	330		9.0	300	150	3	30	5.7	11.7		80K				8Y
1514			PND	SIN	M10		H	6.3	300	330		2.8	250	100	3	3	0.8	1.7		2M				8Y

GROUP II, RECEIVING TUBES

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E_f V	I_f mA	MAXIMUM E_b V	MAXIMUM I_b mA	MAXIMUM P_p W	TYPICAL E_b V	TYPICAL E_{g_2} V	TYPICAL E_{g_1} V	TYPICAL I_b mA	TYPICAL I_{g_2} mA	TYPICAL S_m mmho	TYPICAL μ	TYPICAL R_p Ω	CAPACITY IN pF	CAPACITY OUT pF	f_{max} MHz	BASE
1515	BEA	SIN	M10		H	6.3	450	350		13.2	250	250	12	45	7.5	4.3		52K	9.5	9.5		6BT
1536	DIO	TWN	T9		H	6.3	300	450	90	0.5	150			10								
1538	BEA	SIN	T6		H	6.3	350	330		2.5	250	150		7	2.0	5.0		500K	6.5	2.4		6CC
1539	TRI		T9		H	6.3	600	300		2.5	250			7		4.2	33	7900	3.3	1.7		9AJ
1540	BEA	SIN	T13		H	6.3	900	400		27.5	250	250	14	72	8.0	6.0			11.0	6.7		
1550	DWD	SIN			H	6.3	600	1K	300		350			37								DW6

GROUP III, POWER TUBES

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E	I	MAXIMUM			TYPICAL								CAPACITY		f_{max}	BASE
								E_b	I_b	P_p	E_b	E_{g_2}	E_{g_1}	I_b	I_{g_2}	S_m	μ	R_p	IN	OUT		
						V	mA	V	mA	W	V	V	V	mA	mA	mmho		Ω	pF	pF	MHz	
GE-1	TET	SIN			F	11.0	2A			80.0	15H	250		100		2.5			15.5	10.0	20	
GK1A	TRI	SIN	W46		W	31.5	580A	10K	30A	2H.K	8K			8A		80.0	45		2H	1H	22	
GM1A	TRI	SIN	W22		T	10.5	195A	6K	100A	30.K	3K			8A		20.0	5					
GM1P	TRI	SIN	V																			
GMI-1B	TRI	SIN				9.0	26A			H3.2	22K					5.0						
GS-1B	TRI	SIN	A		H	12.6	3200	2K		1.K	2K		1	250		30.0					1G	
GE-2	TET	SIN			F	11.0	6300			1.H	3K	500		130		2.0			17.0	11.0	20	
GMI-2B	TET	SIN	A70		H	25.0	7500	32K	90A	H9.0				140								TE7
GS-2B	TRI	SIN	W22		H	12.6	3200	2K		1.K	2K		1	250		30.0					1G	
2TM-20	TRI	TWN				20.0	450	750		20.0						4.0	30					
2TM-100	TRI	TWN				20.0	2200	1K		70.0						2.5	28					
GI-3	TRI	SIN	T11		H	6.3	1100	25H	15A	10.0	400		15	16		2.2	16		2.6	1.1	300	4RB
GK3A	TRI	SIN	W43		W	17.0	430A	12K	50A	1H.K	5K			6A		35.0	40		1H	65.0	25	
GM3P	TRI	SIN	V																			
GMI-3	TET	SIN	T32		H	26.0	4750	28K	4500	80.0												
GS-3B	TET	SIN	A30		H	1H	865	2K		2.K	2K	500				40.0					1G	
GU-3	BEA	SIN	S18		H	12.6	450	750	120	30.0	250	250				10.0					60	
GI-4A	TRI	SIN	W		T	10.0	215A	35K	220A	20.K	3K			4A		38.0					150	
GMI-4B	TET	SIN	A		H	6.3	14A	18K	15A	1.H												
GS-4	TRI	SIN	C8		H	6.3	610	250		15.0	200		1	30		18.0	60				600	
GS4D	TRI	SIN				22.0	105A			10.K	15K					12.0	50					
GU4	TRI	SIN				7.0	1800		107	35.0	700			55		1.4	12				85	
GU4A	TRI	SIN	W25		T	8.3	145A	6K	30A	20.K	3K			4A		30.0	50		40.0	35.0	100	
GI-5B	TRI	SIN		PA	T	6.3	425	27K	250A	5.K	1K			1A		25.0					200	
GK5A	TRI	SIN	W44		T	17.0	580A	10K	300A	K2.5						14.0	40		2H	40.0	25	
GMI-5	TET	SIN			H	26.0	1750	20K	12A													
GU5A	TRI	SIN	W14		T	12.6	23A	5K	7A	3.K	3K			600		15.0	80		19.0	16.0	110	
GU5B	TRI	SIN	A14		T	12.6	23A	5K	7A	2.K	3K			600		15.0	80		19.0	16.0	110	
GI-6B	TRI	SIN	C11		H	12.6	2100	9K	20A	H3.5	1K			150		22.0			11.4	4.8	/2G	
GK6A	TRI	SIN	W30							M0.5												
GMI-6	BEA	TWN	T16		H	6.3	2200	4K	8A	15.0												
GS6	TRI	SIN				17.0	8500			5.H	3K					3.5	95					
GI-7B	TRI	SIN	C11		H	12.6	2100	9K	20A	H3.5	1K			150		22.0			11.4	4.8	2G	
GMI-7	TET	SIN	T40		H	26.0	6300	22K	52A	H1.2												
GS-7A	TRI	SIN	W22		H	12.6	3100	/3K		2.K	2K		1	400		30.5					1G	
GS-7B	TRI	SIN	A22		H	12.6	3100	/3K		H1.5	2K		1	400		30.0					1G	
GI-8	PND	SIN	T35		T	12.6	10A	8K	4A	H2.0	1K	600		200		5.5			30.0	25.0		P11
GS-8B	TET	SIN	C12		H	6.3	2000			60.0	1K	250		210		16.0			8.0	5.0	2K	

GROUP III, POWER TUBES

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E_f	I_f	MAXIMUM			TYPICAL								CAPACITY		f_{max}	BASE
								E_b	I_b	P_p	E_b	E_{g_2}	E_{g_1}	I_b	I_{g_2}	S_m	μ	R_p	IN	OUT		
						V	mA	V	mA	W	V	V	V	mA	mA	mmho		Ω	pF	pF	MHz	
GU8	TRI	SIN				5.0	6500				3K					5.5			3.0	2.0		
GK9P	TRI	SIN	V							30.K											2	
GS9B	TRI	SIN	C11		H	12.6	1100	1K	4A	3.H	1K			120		19.5			8.4	31.5	2G	
G10	TRI	SIN				4.1	900			20.0	400			25		.6	19	35K				
GK10P	TRI	SIN	V							2H.K											2	
GU10A	TRI	SIN	W21		T	7.0	75A	8K	15A	10.K	2K			3A		20.0	50		40.0	34.0	25	
GU10B	TRI	SIN	A21		T	7.0	75A	6K	15A	7.K	2K			2500		20.0	50		40.0	34.0	25	
MO-10	TRI	SIN				16.5	52A		10A	10.K	10K					7.0	18					
GI-11B	TRI	SIN	C8		H	12.6	815	2K	1A	8.0	400			15		10.0			11.0	2.6	3G	
GU11A	TRI	SIN	W27		W	12.7	240A	10K	20A	20.K	5K			3A		20.0	55		55.0	45.0	25	
GU11B	TRI	SIN	C8		H	12.6	815	2K	1A	80.0	400			15		10.0			11.0	2.6	/3G	
GI-12B	TRI	SIN	C8		H	12.6	815	2K	1A	80.0	400			15		10.0			11.0	2.6	3G	
GU12A	TRI	SIN	W25		W	12.6	315A	10K	30A	20.K	4K			3A		23.0	20		35.0	24.0	50	
G-13	TRI	SIN	T11		H	6.3	1100	2K		1.0				16		2.2	16		2.6	1.1		4BB
GI-13	TRI	SIN	C9		H	12.6	650	800	/4A	80.0											3G	
GI-13B	TRI	SIN	C8		H	12.6	650	800		80.0											3G	
GM13	TET	SIN	T34		H	26.0	4750	28K	45A	80.0	28K											
GU13	BEA	SIN	T20		T	10.0	5A	2K		1.H	2K	400	35	70		4.0			16.2	14.0	30	P13
GI-14B	TRI	SIN				12.6	3400	21K		5.H	2K			250		35.0					1G	
GS-15B	TET	SIN	C12		H	6.3	2300			H1.6	13H	300		240		16.0			7.0	2.0	3K	
GU15	BEA	SIN	F12		F	4.4	680	400	85	15.0	220	200	14	50	7.5	4.7			10.5	12.5	60	P5S
GI-16B	TET	SIN	A60		W	8.3	115A	8K		H8.0												
GU16B	TRI	SIN	A23		W	13.5	200A	8K	15A	10.K	5K			1500		25.0	47		55.0	42.0	25	
G-17B	TRI	SIN	C11		H	12.6	2A	9K		3.0	1K			150		22.0			11.3	4.8		
GI-17	TRI	SIN	A16		H	6.3	750	8K		1.H	2K			10A		45.0	15		11.0	8.0	500	
GU-17	BEA	TWN	T7		H	6.3	800	400	100	6.0	300	200	16	20	6.0	2.8			6.5	2.7	250	PD7
GI-18B	TRI	SIN	A50		T	12.5	190A	16K	150A	6.K	10K			1A		25.0	45		75.0	50.0	/1	
GU-18	TET	TWN	T13		H	6.3	1200	600	130	20.0	250	200		35	6.0	1.5			7.0	2.6	600	PD8
GI-19B	TRI	SIN	W33		H	7.3	20A	14K	100A	1.K	1K			500		20.0			50.0	12.0	150	
GU-19	BEA	TWN	T16		H	6.3	2000	750	280	40.0	350	250	17	40	8.0	4.5			10.0	3.5	500	PD8
GK20	TRI	SIN				5.6	850		200	20.0	750					1.7	53					
MO20	TRI	SIN				22.0	61A		10A	20.K	10K					7.0	13					
GI-21B	TRI	SIN	C8		H	12.6	900	800	/4A	H1.1	600			75		26.0					3G	
GU21B	TRI	SIN	A30		T	8.3	150A	9K	30A	10.K	9K			3700		30.0	48		55.0	45.0	26	
GI-22	TRI	SIN	C8		H	6.3	640		/2A	10.0	200			30		18.0					6G	
GU22A	TRI	SIN	W25		T	8.3	150A	10K	30A	20.K	10K			2730		27.0	48		55.0	45.0	26	
GU23A	TRI	SIN	W44		T	12.0	210A	11K	60A	60.K	5K			7900		49.5	49		H1.0	65.0	26	
GU-23B	TRI	SIN	A		W	12.0	210A	11K		50.K						42.0	55				26	

GROUP III, POWER TUBES

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E_f V	I_f mA	MAXIMUM E_b V	MAXIMUM I_b mA	MAXIMUM P_p W	TYPICAL E_b V	TYPICAL E_{g_2} V	TYPICAL E_{g_1} V	TYPICAL I_b mA	TYPICAL I_{g_2} mA	TYPICAL S_m mmho	TYPICAL μ	TYPICAL R_p Ω	CAPACITY IN pF	CAPACITY OUT pF	f_{max} MHz	BASE
GI-24A	TRI	SIN	W30		W	6.3	425A	27K	250A	25.K	4K			150A		40.0					200	
GU24A						3.3	/2KA	6K		25.K											273	
GI-25	TRI	SIN	C8		H	6.3	1145	/2K		12.0	250					24.0					56	
GU25B	TRI	SIN	W30		T	8.3	150A	12K		12.K						30.0	48				26	
GU26A	TRI	SIN	W		H	30.0	17A	6K		10.K						20.0					330	
GU26B	TRI	SIN			T	12.0	210A	12K	60A	50.K												
GU27A	TET	SIN	W13		T	7.5	25A	4K	5A	2.K	2K	1K		300		6.0	16		25.0	17.0	110	
GU27B	TET	SIN	A24		T	7.5	25A	3K	5A	8.H	3K	1K		300		6.0	16		21.0	13.0	110	
GU-28A	TET	SIN	W20		T	6.3	98A	10K	98A	8.K	3K	850				16.0	9				24	
GU28B	TET	SIN	A		T	6.3	98A	10K		10.K	3K	2K				16.0					30	
M28	TRI	SIN				11.0	6400			H1.5	1K			375		2.4	11	/5K				
G29	TRI	SIN				16.0	10A		1200	4.H	10K			1200		3.2	250					
GU29	BEA	TWN	T16		H	6.3	2250	750	250	40.0	600	200	70	150	30.0	8.0			15.0	7.0	200	7BP
GI-30	BEA	TWN	T16		H	6.3	2250	5K	9A	15.0	250			58		8.0			15.0	7.0		7BP
GMI-30	TRI	SIN	G44		T	8.2	17A	27K	15A	3.H	2K			100		5.8			9.5	2.0		
GU30A	TRI	SIN	W		T	10.5	220A	7K	50A	60.K						38.0	28				100	
GU31	TET	SIN				6.3					450	200										
G32	TRI	SIN				3.2	3500			15.0	800			60		.8	18	22K		2.4		
GU32	BEA	TWN	T14		H	6.3	1600	750		15.0	250	130	10	30	5.5	3.5			7.8	3.8	200	BT7
GU33B	TET	SIN			H	6.3	5A	1K		H1.5	15H	400				20.0					500	
GU34B	TET	SIN	T20		H	12.6	4A	4K		5.H	2K	600				28.0					250	
GU-35B	TET	SIN	A		W	6.3	65A	5K		K3.5	5K	800				24.0	20				250	
G36	TRI	SIN				5.6	860			20.0	600			200		1.8	60	35K				
GU-36B	TET	SIN	A		W	8.3	100A	6K		14.K	6K	1K				80.0					250	
GU-37B	TRI	SIN	A		W	3.4	110A	3K		K3.5						25.0	35				330	
GU-39A	TET	SIN	W		W	6.3	98A	10K		8.K		2K				22.0					100	
GU-39B	TET	SIN	A		W	6.3	98A	10K		6.K		2K				22.0					100	
GU39P	TET	SIN	V							15.K											30	
M39	TRI	SIN				11.0	3500			30.0	1K			200		1.4	10	7K				
GU-40B	TET	SIN	A		T	6.3	33A	45H		2.K	2K	900				18.0					250	
GU43B	TET	SIN			H	12.6	6600	33H	3200	1.K	1K	350	25	1000		45			85	14	100	
G46	TRI	SIN				11.0	4100		250	80.0	1K					2.0	55				250	
G47	TRI	SIN				11.5	3800		215	H1.5	3K					1.4	70					
GU50	PND	SIN	F12		H	12.6	655	1K	230	40.0	1K	300	80	120	10.0	5.0			14.0	9.2	120	P9S
M50	TRI	SIN				11.0	6300		270	50.0	1K					1.4	10					
GM51A	TRI	SIN	W19		W	22.0	102A	12K	10A	15.K	5K			2A	10.0	.7					12	
M53	TRI	SIN				11.0	6300			H1.5	3K			375		1.4	11	7K				
GM57	TRI	SIN				4.0	2100				750					5.0	9		8.5	3.5		
M57	TRI	SIN				16.0	10A			4.H	10K			1200		2.9	52	18K				

GROUP III, POWER TUBES

TYPE NUMBER	KIND	TYPE	BULB	USE	CATHODE	E_f V	I_f mA	MAXIMUM E_b V	MAXIMUM I_b mA	MAXIMUM P_p W	TYPICAL E_b V	TYPICAL E_{g_2} V	TYPICAL E_{g_1} V	TYPICAL I_b mA	TYPICAL I_{g_2} mA	TYPICAL S_m mmho	TYPICAL μ	TYPICAL R_p Ω	CAPACITY IN pF	CAPACITY OUT pF	max MHz	BASE
GM60		TRI	SIN	T32	W	17.0	8A	10K	550	6.H	1K			100	2.2	1.6						
G61		TRI	SIN			16.5	52A		11A	10.K							47					
GU61P		TET	SIN	V						30.K											70	
G62		TRI	SIN			16.5	51A			10.K				10A		7.0	47	7K				
GU62P		TRI	SIN	V						60.K											85	
G65		TRI	SIN			5.2	1300			12.0				60		1.0	60	60K				
GU66P		TRI	SIN	V						1H.K											30	
G68		TRI	SIN			17.0	18A			1.K	10K			2A		5.0	180	36K				
GI-70B		TRI	SIN	C11	H	12.6	2100	9K	20A		1K			150		22.0			11.4	4.9	36	
GM-70		TRI	SIN	T21	T	20.0	3A	1K	800	1.H	600			200		6.0	7		8.0	12.0		
GM-70B		TRI	SIN	T21	T	20.0	3A	1K	800	1.H	600			200		6.0	7		8.0	12.0	IF	
GK71		PND	SIN	T21	T	20.0	3A	1K		H1.2	600	400		200	62.0	4.2			18.0	17.0	20	P12
GU72		PND	SIN	T25	T	20.0	3A	1K	900	H1.5	750	400		150		4.2			18.0	17.0	40	P14
M74		TRI	SIN								450					.1	63					
GI-76B		TRI	SIN	C		12.6	2100	9K			1K			150		22.0			11.3		36	
GU80		PND	SIN	T30	T	12.6	10A	3K		4.H	2K	600	140	200		5.5			28.5	22.5	50	P6S
M80		TRI	SIN			11.0	3500		260	80.0	1K					1.4	10					
GU81		PND	SIN	T38	F	12.6	10A	3K		H4.5	2K	600				5.5					50	
GMI-83		TET	SIN	T20	H	25.0	2000	20K	15A	65.0	15K	1K							50.0	5.0		
G88		TRI	SIN			6.0	4A				600			120		.9	15	17K				TS5
GMI-89		TET	SIN	T32	H	25.0	4000	25K	20A	1.H	25K	1K				22.0			60.0	12.0		
GU89A		TRI	SIN	W24	W	11.0	124A	8K	9A	5.K	1K			3A		10.0	20		23.3	17.5	100	
GU89B		TRI	SIN	A24	W	11.0	124A	8K	9A	5.K	1K			3A		10.0	20		23.3	17.5	100	
M89		TRI	SIN			11.0	6300			H4.5	1K					5.0	9	1800				
GMI-90		TET	SIN	T46	H	25.0	7800	33K	40A	1.H	33K					4.0			1H	16.0		
GS90B		TRI	SIN	C12	H	12.6	1100	2K	4500	15.0	1K			175		19.5					36	
G91		TRI	SIN			11.0	6200				600			400		.9	10	5K				P10
GKE100	*	TET	SIN	T20	H	11.0	2A	/2K	500	1.H	15K	250	2	500	6.5	2.8	225		15.5		20	TE4
GM100		TRI	SIN	T60	W	17.0	18A	5K	1600	1.K	1K			600		6.5	18				IF	
G120		TRI	SIN			16.5	52A		11A	5.K	4K			700			14					
GI-150		TRI	SIN	C8	H	12.6	815	800	/5A	20.0	400			15		10.0					46	
GKE150	*	TET	SIN		H	11.0	6300		420	1.H	3K	500				2.0	350					TE4
GU150		TRI	SIN			11.0	10A		710	H1.5	2K					2.2	17				85	
M150		TRI	SIN			11.0	6300		420	H1.5	3K					1.4	11					
G256		TRI	SIN							30.0	450										500	
GKE300		TET	SIN		H	17.0	10A		750	4.H	3K	500				3.9	400					
M400		TRI	SIN			17.0	18A		2300	4.H	1K					6.0	10					
M401		TRI	SIN			16.0	10A		1200	4.H	10K					2.9	52					

GROUP III, POWER TUBES

TYPE NUMBER		KIND	TYPE	BULB	USE	CATHODE	E_f	I_f	MAXIMUM			TYPICAL								CAPACITY		f_{max}	BASE
									E_b	I_b	P_p	E_b	E_{g_2}	E_{g_1}	I_b	I_{g_2}	S_m	μ	R_p	IN	OUT		
							V	mA	V	mA	W	V	V	V	mA	mA	mmho		Ω	pF	pF	MHz	
G410		TRI	SIN				10.0	450			10.0	400					4.0	23		2.9	2.7		
G411		PND	SIN				10.0	600	400		20.0	400	200	55	112	5.0	5.5			11.0	7.0		
G412		PND	SIN				20.0	220	750		20.0	750	250	40	57	11.0	3.0			6.5	6.0		P10
G413		PND	SIN				20.0	500	750		40.0	750	250	55	90	15.0	4.5			11.0	10.5		P10
G414		PND	SIN				20.0	1400	1K		1.H	1K	250	50	65	10.0	6.0			21.0	19.0		P15
G417		TRI	SIN				5.0	1150			20.0	400					1.0	19		1.9	1.0		TS9
G418		PND	SIN			F	5.0	900	400		20.0	400	225	50	85	20.0	4.0			12.5	10.0		
G422		PND	SIN				20.0	3250	1K		1.H	750	300	60	180	40.0	3.0			15.5	15.5		
G424		PND	SIN				20.0	4600	1K		2.H	1K	400	140	300	80.0	5.0			27.0	33.0		
G425		PND	SIN				20.0	22A	4K		H7.5	4K	1K	100	350	70.0	4.0			21.0	18.0		
G430		TRI	SIN				22.0	51A	12K		10.K							45					
G431		TRI	SIN	W16		W	22.0	102A	15K		20.K	5K			3A		12.0	50		25.0	1.5	25	
G431A		TRI	SIN	W			22.0	102A	15K	12A	20.K	5K			3A		12.0	50		25.0	1.5	25	
G433		TRI	SIN	T46		W	33.0	210A	15K		60.K	6K			5A		32.0	45		80.0	67.0	20	
G433A		TRI	SIN				33.0	210A	15K	50A	60.K	6K			5A		32.0	45		80.0	6.0	20	
M435		TRI	SIN				20.0	24A			1.K	5K					6.0	9					
G441		TRI	SIN				11.0	51A			K2.5	7K						40					
G-450		TRI	SIN	W38		W	16.0	51A	10K		10.K	5K			4A		7.0	44				20	
G-452		TRI	SIN	W40		W	22.0	102A	15K		20.K	5K			4A		12.5	40				25	
G-454		TRI	SIN	W38		W	22.5	71A	10K		20.K	5K			4A		10.0	45				20	
G472		TRI	SIN				2.5	14A			1.H		18K				2.5	140					
G484		TRI	SIN	A30		W	22.0	60A	9K		5.K	3K			1A			9			23.0	320	
GK750		TRI	SIN				5.0	10A			H2.5	3K					6.6	37		5.8	2.9	40	
M800		TRI	SIN				17.0	8A		800	8.H	10K					2.2	16					
G807		BEA	SIN	S16		H	6.3	900	750	120	30.0	600	275	90	100	6.5	6.0			12.0	7.0	60	5AW
G811		TRI	SIN				6.3	400			50.0	1K						160		5.6	5.5	100	T1S
G837	*	PND	SIN				12.6	700		200		500	200	85		30.0	3.4			16.0	10.0		
G889		TRI	SIN				11.0	125A			5.K	7K						21		23.3	3.0	100	
G891		TRI	SIN				11.0	60A			K3.5	8K						8					
GKE1000		TET	SIN				17.0	18A			H7.5	4K	500				3.0	150		22.0	0.2		
G1625		BEA	SIN				12.6	450			25.0	600					6.0			11.0	7.0		
GK2000		TRI	SIN				16.0	51A		1A	10.K	8K					7.0						
GK3000		TRI	SIN				17.0	18A		1600	1.K	10K					5.2	200					
GI-3100		TRI	SIN				6.3	1100			10.0	2K					2.2	16		2.6	1.1	300	
G40011		TRI	SIN				15.0	70A			3.H	4K					4.0	150		5.3	1.2		

GROUP IV, RECTIFIER TUBES

TYPE NUMBER	KIND	TYPE	BULB	GAS	CATHODE	E_f V	I_f mA	MAXIMUM E_b V	MAXIMUM I_b mA	TYPICAL E_b V	TYPICAL I_b mA
EVU-25/1.0	IGN		TIH	HG	C			12H	400A		
EVU-50/1.0	TRI	IGN	T33	HG	C			12H	900A		50A
EVU-100/1.0	IGN		T2H	HG	C			12H	2KA		
GG-1-0.3/8	DIO	SIN	T14	AR	H	6.3	4A	8K	1A	30	/1
GG1-0.5/5	DIO	SIN	S21	KX	F	2.5	8500	5K	1500		500
GG-1-0.5/20	DIO	SIN	T21	AR	H	6.3	5A	20K	3500	30	/1
GG-1-1/22	DIO	SIN	T30	GS	H	6.3	14A	22K	1A	30	1
GG-1-2/5	DIO	SIN	T22	XE	H	6.3	6500	9K	6500	16	2
GG-1-2/16	DIO	SIN	T30	AR	H	6.3	16A	16K	7A	30	2
GR1-02/15	DIO	SIN	S16	HG	F	5.0	3300	/2K	800		235
GR-1-0.3/8.5	DIO	SIN	S21	AR	F	6.3	4A	8K	1A	30	/1
GR-1-25/15	DWD	SIN		GS	F	5.0	3A	/2K	800	500	125
GR1-0.25/1.5	DWD	SIN	S17		F	5.0	3300	16H	800		235
I/1/25/0.8	TRI	IGN	T19	HG	C			800	25A		10A
I-1-50/20	TRI	IGN	T47	HG	C			20K			50A
I-1-70/0.8	TRI	IGN	W48	HG	C			800			70A
I-1-100/1.5	TRI	IGN	W52	HG	C			15H	3HA		1HA
I-1-140/0.8	TRI	IGN	W56	HG	C			800			1HA
I-1-350/0.8	TRI	IGN	W70	HG	C			800			3HA
I-2-50/1.5	TRI	IGN	T34	HG	C			15H	150A		50A
I-2-50/1.5	TRI	IGN	W52	HG	C			15H	1HA		50A
I-20/1.5	TRI	IGN	W25	HG	C			15H	60A		20A
I-20/1500	*DIO	IGN	W19	HG	C			15H	1KA		20A
I-50/1.5	TRI	IGN	W35	HG	C			15H	1HA		50A
I-50/1500	*DIO	IGN	W26	HG	C			15H	2KA		50A
I-100/1.0	TRI	IGN	W70	HG	C			1K	6HA		1HA
I-100/5.0	TRI	IGN	123	HG	C			5K	3HA		1HA
I-100/1000	*DIO	IGN	W33	HG	C			1K	2KA		100A
I-100/5000	*DIO	IGN	W33	HG	C			5K	300A		100A
I-150/1.0	TRI	IGN	W52	HG	C			1K	1HA		1HA
I-200/1.5	TRI	IGN	W65	HG	C			15H	6HA		2HA
IVS200/2		IGN	W	HG	C			/3K	450A	16	150
T-409	*DIO	IGN	G14	HG	C			3K	200A		
T-410	*DIO	IGN	G17	HG	C			14K	20A		
T-411	*DIO	IGN	G17	HG	C			19K	100A		
V1-00313	DIO	SIN	T10		F	2.5	4600	13K	3000		30
V1-02/20	DIO	SIN	T13	VC	F	2.5	3200	20K	100		20
V1-03/13	DIO	SIN	T9	VC	F	2.5	4650	13K	3A		30
V1-05/70	DIO	SIN	T32	VC	F	5.0	32A	70K	8A		50
V1-06/30	DIO	SIN						30K			60
V1-1/2	DIO	SIN	W12	VC	F	15.0	12A	25H	1000		
V1-1/30	DIO	SIN	T18	VC	F	5.0	5A	30K	600		100
V1-1/40	DIO	SIN	T17	VC	F	5.0	6A	40K	750		100
V1-2/40	DIO	SIN						40K			200
V1-3/16	DIO	SIN	A27	VC	H	6.3	10A	16K	1500		300

GROUP IV, RECTIFIER TUBES

TYPE NUMBER	KIND	TYPE	BULB	GAS	CATHODE	E_f v	I_f mA	MAXIMUM E_b v	MAXIMUM I_b mA	TYPICAL E_b v	TYPICAL I_b mA
V1-3/70	DIO	SIN						70K			300
V1-4/40	DIO	SIN	G70	VC		7.5	48A	44K	2A		450
V1-15/55	DIO	SIN	T31	VC	F	6.3	7500	55K	700		180
VG-129	DIO	SIN	S20	HG	F	2.5	9A	7K	1500		500
VG-161	DIO	SIN		HG	F	2.5	6A	/3K	1A	/2K	300
VG-163	DIO	SIN	G70	HG	F	5.0	32A	15K	50A		16A
VG-176	DIO	SIN	G16		M	2.5	11A	150	9A	20	
VG-236	DIO	SIN	G38	HG	F	2.5	20A	7K	4A		1300
VG-237	DIO	SIN	G32		F	5.0	22A	10K	10A		3500
VG-252	DIO	SIN				2.5		300	30A	15	
VG1/6500	DIO	SIN		GS	F	2.5	5500	8K	1A	6K	300
VI-1-5/20	DIO	SIN	T16	VC	H	6.3	29A	20K	5000		
VI-1-5/30	DIO	SIN	A16	VC	W	6.3	95A	30K	2000		
VI-1-18/32	DIO	SIN	A23	VC	H	17.0	3700	40K	20A		500
VI-1-27/35	DIO	SIN	A40	VC	H	9.0	145A	35K	70A		
VI-1-30/25	DIO	SIN				10.0	6A	25K	30A		30
VI-1-70/32	DIO	SIN						32K	70A		
VI-1-10050	DIO	SIN						50K	100A		
VI-2-27/35	DIO	SIN	W20	VC	H	9.0	145A	35K	70A		
VI-2-70/32	DIO	SIN	A21	VC	H	12.6	5300	32K	70A		70
VI-2-100/50	DIO	SIN	A30	VC	H	12.6	36A	50K	100A		
VO-1	DIO	SIN			H	4.0	3200			850	40
VO-125	DIO	SIN			F	4.0	700			250	60
VO-188	DWD	SIN			F	4.0	2A			500	155
VO-196	DIO	SIN			H	4.0	3A			750	250
VO-197	DWD	SIN			F	4.0	5A			250	300
VO-202	DWD	SIN			F	4.0	700			250	60
VO-230	DIO	SIN			F	4.0	700			350	50
VO-239	DIO	SIN			F	4.0	2A			850	180
VO-360	DIO	SIN			F	4.0	1A			500	100
VU-111D	DIO	SIN	S		F	4.0	1500	12K	400	160	80
2V6	DIO	ARC		HG	C			400	6A		
2V12	DIO	ARC		HG	C			1K	1A		
2V20	DIO	ARC		HG	C			750	20A		
2VN12	DIO	ARC		HG	C			450	12A		
2VN20	DIO	ARC		HG	C			750	20A		
3V30	DIO	ARC		HG	C			750	30A		
3VN30	DIO	ARC		HG	C			750	30A		
3VN60	DIO	ARC		HG	C			400	60A		
3VN100	DIO	ARC		HG	C			600	100A		
1502	DIO	SIN	F13		H	5.0	3000	/2K	1200	500	400

GROUP V, VOLTAGE REGULATOR TUBES

TYPE NUMBER	KIND	GAS		CATH MAT'L	VOLT. RANGE		CUR. RANGE		DIMEN		BASE
		KIND	PRES mm		MAX V	MIN V	MAX mA	MIN mA	DIA mm	LTH mm	
SG1P	REG	AHE			190	145	30	5	22	65	7DN
SG1P-V	REG				170	145	30	5	22	65	7DN
SG1P-YE	REG				170	143	30	5	22	65	7DN
SG2P	REG	AKN			150	104	30	5	22	65	7DN
SG2S	REG	NA	30		110	70	40	5	32	75	4AJ
SG3P	REG	AHE			170	144	40	5	22	65	
SG3S	REG	AHN	30		133	105	40	5	32	75	4AJ
SG4S	REG	AHE	30	NI	180	145	30	5	32	75	4AJ
SG5B	REG	AHE			190	142	10	5	10	36	
SG5B-V	REG				170	142	10	5	10	36	
SG7S	REG				480	390	0.1	0.003			
SG8S	REG				970	880	0.1	0.003	10		
SG9S	REG				13H	12H	0.1	0.01	10		
SG10S	REG	NK			150	86	15	4	32	40	
SG13P	REG	AHN	55	NI	180	143	30	5	19	55	7DN
SG14P	REG	AHN			125	115	40	20	22	75	7DN
SG15P	REG	AHN	54	MO	150	104	30	5	19	55	7DN
SG15P1	REG				160	103	30	5	19	60	
SG16P	REG	AHE	40	MO	130	80	30	5	19	55	7DN
SG17S	REG	NEH			1350	850	60	10	38	189	
SG18S	REG	NEH			1500	950	60	10	38	189	
SG19S	REG	NEH			1650	1050	60	10	38	189	
SG20G	REG				135	85	15	4	10	45	
SG201S	REG	NK	50	MO	150	86	15	4	32	40	4AJ
SG202B	REG	NA	35	MO	140	81	5	1.5	10	40	
SG203K	REG				150	79	10	1	12	20	
SG226	REG	NE			95	70	40	8	50	130	
SG227	REG	NE			95	70	60	10	65	135	
SG301S	REG	HY	16	NI	439	380	0.1	0.003	12	55	
SG302S	REG	HY	82	NI	970	880	0.1	0.003	12	55	
SG303S	REG	HY	143	NI	1350	1220	0.1	0.01	12	55	
SG304S	REG	HY			4200	3800	1	0.05	25	129	
SG305K	REG				10K	9K	1.5	0.05	33	180	
SG306K	REG				26K	24K	1.5	0.05	48	245	
SG307K	REG	HY			157H	142H	1.5	0.05	33	181	
SG308K	REG	HY			21K	19K	1.0	0.05	33	181	
SG309K	REG	HY			315H	285H	1.5	0.05	49	251	
SG311S	REG				430	400	1	0.05		86	D13

GROUP VI, CURRENT REGULATOR TUBES

TYPE NUMBER	KIND	TYPE	BULB	VOLT. RANGE		CUR. RANGE		BASE
				MAX V	MIN V	MAX mA	MIN mA	
024B12-18	BAL	SIN	T10	18	12	264	248	
03B17-35	BAL	SIN	T14	35	17	325	275	8ES
03B65-135	BAL	SIN	T14	135	65	325	275	8ES
0425B55-12	BAL	SIN		12	6	460	390	8ES
085B55-12	BAL	SIN	T9	12	6	920	780	8ES
1B5-9	BAL	SIN	T14	9	5	1080	960	DS7
1B10-17	BAL	SIN	T14	17	10	1040	960	DS7
ST2S	BAL	TWN		17	6	2100	2000	DS6
ST3P	BAL	SIN	T6	6	4	880	720	8ES

GROUP VII, THYRATRONS

TYPE NUMBER	KIND	BULB			GAS	CATHODE				MAXIMUM ANODE					AVG	MAXIMUM GRID						BASE
		SHAPE	LTH mm	DIAM mm		KIND	E_f V	I_f mA	WARM-UP MIN. S	PIV V	E_f V	FIRING V	TUBE DROP V	PULSE I_b mA	I_b mA	BIAS V	INPUT RES kΩ	PULSE IGN. V	PULSE TIME µS	PULSE t_r nS	PULSE pps 10^3	
TG1P	TRI	T	36	10	KX	H	6.3	225	10	240	240	30	20	120	20	100	1M	100	30	10		
TG1P-V	TRI	T	36	10	KX	H	6.3	225		240			16	120	20	28						
TG1P	TRI	T	67	19	HF	H	6.3	1200		4K		60	34		35							
TG1-0.02/0.5	TET	T	38	19	XE	H	6.3	165	10	500	500	30	16	120	20	15	10M	15				8T1
TGI-0.1/0.3	TRI	T	97	35	AR	H	6.3	660	30	300	300		20	300	75	80	500	80			20	8T3
TG1-0.1/1.3	TET	T	105	33	KX	H	6.3	600	10	1300	650	25	11	500	100	100	10M	100	5	60	10	8T2
TG1-0.5/12	TRI	T	225	62	AR	H	6.3	5A	120	12K		500	27	3A	500	70	100					
TG1-1.0/0.8	TET	T	130	61	KX	H	6.3	300	60	800	420	50	15	6A	1A	15	1M	15				10T
TG1-1.5/2	TRI	T	160	68	XE	H	6.3	7500		2K			16	5A	15H	15						
TG1-1.6/1.3	TRI		201	66	XE	H	5.0	6A	90	1300	1K		20	10A	/2A	100	100	100				
TG1-2.5/4	TRI	S	255	85	KX	F	5.0	12A	60	4000	3K	140	20	8A	/3A	100	100	100				4T2
TG1-2.5/10	TET	T	285	90	XE	H	5.0	15A		10K			16	8A	25H	50						
TG1-2/8	TRI	T	180	70	XE	H	5.0	12A				140	20	8A								
TG1-3.2/1.3	TRI		222	66	XE	H	5.0	8A	90	1300	1K		20	20A	3A	100	100	100				
TG1-5-3	TRI	T	350	110	KX	F	5.0	21A		3K			22	15A	5A	20						
TG1-6.4/1.3	TRI		242	66	XE	H	5.0	13A	120	1300	1K		20	40A	6A	100	100	100				
TG1-12.5/1.3	TRI	T	292	90	XE	H	5.0	16A		13H			20	80A	12A	20						
TGI-1B	TRI	T	40	10	XE	H	3.1	1500		500		30		20A		6	1M					
TGI-1-3/1	TET	T	67	19	AR	H	6.3	1100	90	1000	1K		35	3A	6		40		12	300	5	T22
TGI-1-5/1.1	TRI	T	67	19	HY	H	6.3	2000		1100		70		5A	10	100					15	T23
TGI-1-10/1	TRI	T	80	32	HY	H	6.3	2600	60	1000	2K			20A	50	100	15		6	150	40	
TGI-1-35/3	TRI	T	135	38	HY	H	6.3	2500	180	1500	3K		140	35A	45		100		6	500		
TGI-1-50/5	TRI	T	160	45	HY	H	6.3	3600	180	5K	5K		160	50A	50					/1	4	
TGI-1-90/8	TRI	T		60	HY	H	6.3	7000		8K				90A	100					/1	2	
TGI-1-130/8	TRI	T	180	64	HY	H	6.3	500		3K				1HA	150				/1		2	
TGI-1-130/10	TRI	T	205	62	HY	H	6.3	5A	240	10K	10K		150	1HA	250						4	
TGI-1/260/12	TRI	T	285	90	HY	H	6.3	12A	180	12K				3HA	400			200			/5	
TGI-1-325/16	TRI	T	230	66	HY	H	6.3	8500		16K			150	3HA	200			200	/1		1	
TGI-1-400/3.5	TRI	S	280	85	HY	H	5.0	18A	180	3500	1K			4HA	300		2		20			
TGI-1-400/16	TRI	T	268	78	HY	H	6.3	10A		16K			170	4HA	500			200			/1	
TGI-1/500/16	TRI	T	138	70	HY	H	6.3	15A	300	16K				5HA	500			400	10		1	
TGI-1/500/20	TRI	T	300	110		H	6.3	19A	300	20K				5HA	51A			400	10		5	
TGI-1-700/25	TRI	T	450	135	HY	H	6.3	20A		20K			200	7HA	1A			700	/1		/1	
TGI-1-1000/25	TRI		161	107	HY	H	6.3	20A	300	25K	150			1KA	1A				6			
TGI1-1000/25	TRI	T	154	110		H	6.3	20A	300	25K			150	1KA	51A			500	50		/1	
TGI1-2000/35	TRI	T	420	172		H	6.3	55A	300	35K				2KA	3A			1K	10		/1	
TGI1-2500/35	TRI	T	600	215		H	6.3	55A	720	35K				2KA	25H			1K	10		/1	
TKH-1	TRI		85	34	NE	C					150		60	100	30							
TKH1B	TRI					C					160		85	30	10		10M	85				
TKHI-1G	PND	T	45	13	AR	C				275	205			60A	25A		100					

GROUP VII, THYRATRONS

TYPE NUMBER	KIND	BULB			GAS	CATHODE			MAXIMUM ANODE					AVG	MAXIMUM GRID					BASE
		SHAPE	LTH mm	DIAM mm		KIND	E_f V	I_f mA	WARM-UP MIN. S	PIV V	E_f V	FIRING V	TUBE DROP V	PULSE I_b mA	I_b mA	BIAS V	INPUT RES kΩ	PULSE IGN. V	PULSE TIME μS	PULSE t_r nS	PULSE pps 10^3	
TR1-2.5/3	TRI	T	120	66	HG	H	5.0	7A	300	3K			15	15A	25H							
TR1-5/2	TRI	T	275	90	HG	H	5.0	15A		2K			15	15A	500	24						
TR1-6/3	TRI	T	160	66	HG	H	5.0	13A	300	3K			15	40A	6A							
TR1-6/15	TRI	T	350	90	HG	H	5.0	23A	900	15K			18	20A	6A	100	5					
TR1-15/3	TRI	T	250	90	HG	H	5.0	22A	480	3K			15	90A	15A	100	100					
TR1-15/15	TRI	T	490	95	HG	H	5.0	40A		15K			20	47A	15A	100						
TR1-15/20	TRI	T	440	108	HG	H	5.0	20A	900	20K			18	45A	15A	150	5					
TR1-40/15	TRI	G	700	245	HG	H	5.0	68A	3K	15K			20	1HA	40A	100	5					
TR1-85/15	TRI	T	760	270	HG	H	5.0	130A		15K			20	3HA	85A	100						
TR1-130/15	TRI	T		220	HG	H	5.0	130A		15K				3HA	85A							
TG2-0.1/0.1	TRI	T	105	40	XE	H	6.3	600	10	100	100		11	300	100	2	5M					
TG2-0.5/12	TRI	T	225	62	HY	H	6.3	7A		12K			70	/4A	500	100						
TG2.5/5	TRI					F	5.0	13A		3K				8A	2A	18						
TGI-2-260/12	TRI	T	285	90	HY	H	6.3	12A		12K					400			200			/5	
TGI-2-325/16	TRI				HY	F	6.3	8500		16K				3HA	200							
TGI-2-400/35	TRI				HY	F	5.0	18A		3500				4HA	300							
TKH-2	TRI		57	19	HE	C				2800	350		80	100	12		8M				1	T24
TG3-0.1/1.3	TET	T	57	19	KX	H	6.3	600		1300	650	30	11	500	100	100	10M	100	10	60	10	7EM
TG3-2.5/10	TRI	T	290	90	KX	H	5.0	20A		10K			25	8A	/3A	30						
TKH3B	TET	T	40	10	NA	C					190	110		10	2	85	20M	67	15	1HU	1	
LP-4	COM					H	4.0	270		260				1		70						
TKH4B	TET		40	10	NA	C				225	180	115		7	3		99M	92	10			
LP-5	COM					H	4.0	270		200				1	4	40						
TKH-5A	TRI		25	7	NA	C					270		110	/1	/1							
TKH-5B	TRI	T	25	7	NE	C				270	225			/2	/1	150						
LP-6	COM		108	58		H	6.3	1600		275				1	8	350						
TKH-6G	HEX	T	50	13		C					285	130			1			100	20			
LP-7	COM		62	35		H	4.0	270		25					/1	13						
TKH-7G	PND	T	50	13		C				285				2	1			80		200		
TKH-8G	HEX	T	40	13		C					285	130			1			80	10			
TKH-9G	HPT	T	50	13		C				285				2	1			40		200		
TKH-11G	TET	T	60	13		C					215				10			35	7			
TKH-12G	HPT	T	50	13		C				275				1K	10			50				
TKH-13	PND	T	50	13		C				220				5	1			100		5		
MTKH90	TRI		30	12	NE	C					160		50	20			20M	85				
TGI-200	TRI	S	280	85	KX	F	5.0	15A	60	3500			20	2HA		18	200					
TG212M	TRI	T	105	35	AR	H	4.0	950	30	300	300		27	500	125	7	100					
TG-213	TRI					F	2.5	9A						1A	500	15						
TG-235	TRI					F	5.0	12A						6A	1A	16						

GROUP VIII, CATHODE RAY TUBES

TYPE NUMBER	METH. OF FOCUS	METH. OF DEFL	DIMENSIONS DIAM cm	DIMENSIONS LENGTH cm	USE	CATHODE	TYPICAL HEATER E V	TYPICAL HEATER I mA	TYPICAL E_{Foc} V	TYPICAL E_{A_1} kV	TYPICAL E_{A_2} kV	TYPICAL E_{A_3} kV	TYPICAL E_{A_4} kV	TYPICAL E_{C_1} V	MAXIMUM I_K µA	MAXIMUM DEFL SENS mm/V	SCREEN COL	SCREEN PERS	DEFL ANGLE degrees	BASE
LI-1	C		4	17	IC	H	6.3	510	400	1.2				50						F8
LI-3	C	ELM ELM	1		IC	H	12.6	300	650	1.0				50	250					A4
LN-4		FLS ELS	17	49	ST	H	6.3	550		1.5	0.2			500	6					
LI-6	C	ELM ELM	2	32	IC	H	12.6	300	850	1.3				50	250					A4
LI-7	C	ELM ELM	13	32	IC	H	12.6	300	850	1.3				50	250					A4
LN-7		ELM ELM	9	26	ST	H	12.6	300		0.6				65						
LN-8		ELS ELS	9	36	ST	H	6.3	550		0.2	1.5			70						
LI-13	C	ELM ELM	8	39	IM	H	6.3	600	285	0.6	1.5			35	150					C14
LI-14	C	ELM ELM	3	39	IM	H			270	0.6	0.9			35	150					C14
LI-15	C	ELM ELM	3	39	IM	H	6.3	600	285	0.6	0.9			35	150					C14
LI-17	C	ELM ELM	8	39	IM	H	6.3	600	285	0.6	1.5			35	150					C14
LI-18	C	ELM ELM	/2	16	VI	H	6.3	450	600					80	1					B9
LI-22		ELM ELM	9	30	IM	H	6.3	550		1.1				120	250					
LI-23		ELM ELM	3	16	VI	H	6.3	600	300	0.3				125						
LI-101	C	ELM	15	31	IC	H	6.3	300	800	1.2				5	350					
LI-201	C	ELM	8	39	IM	H	6.3	600	15H	0.4					150					
LI-202		ELM ELM	8	39	IM	H	6.3	600	450	0.4	1.5			150	25					
LI-203		ELM ELM	8	39	IM	H	6.3	600	270	1.5					150					
LI-207		ELM	8	39	IM	H	6.3	600		0.4	1.5				10					
LI-212		ELM ELM	4	23	IM	H	6.3	260		0.3	1.8				200					
LO-247		ELS ELS	11		OS		4.0	700	112	0.8				16	160		GR	MD		
LO-248		ELS ELS	11		OS		4.0	700	600	3.0				50			GR	MD		
LO-249		ELS ELS	11		OS		4.0	700	600	3.0				50			GR	MD		
LI-401		ELM ELM	34	16			6.3	450						150						
LI-407		ELM ELM	2	11	VI	H	6.3	80						150	50N					
LI-408		ELM ELM	3	13	VI	H	6.3	90						130						
LI-409		ELM ELM	3	13	VI	H	6.3	80			0.3			125	50N					
LI-410			4	22	VI	H	6.3	630		0.7	0.4			300	160N					
LI-412		ELM ELM	3	13	VI	H	6.3	90		0.3	0.3			60	100N					
LI-601		ELM ELM	5	20	IM						1.6			370	5M					
LO-709A		FLS FLS	11		OS		2.5	21H	450	2.0				50			GR	MD		
PIM-3	C		6		IC					18.0							VB			
PIM-4	C		13		IC					18.0							VB			
3LK1P		ELM ELM	3	19	TV	H	6.3	500		2.0				40			WH	MD		
3LO1-I		ELS FLS	3	12	OS	H	6.3	600	100	0.5				60	300	0.18	GR	MD		

GROUP VIII, CATHODE RAY TUBES

TYPE NUMBER	METH. OF FOCUS	METH. OF DEFL	DIMENSIONS DIAM cm	DIMENSIONS LENGTH cm	USE	CATHODE	TYPICAL HEATER E V	TYPICAL HEATER I mA	TYPICAL E_{Foc} V	TYPICAL E_{A_1} kV	TYPICAL E_{A_2} kV	TYPICAL E_{A_3} kV	TYPICAL E_{A_4} kV	TYPICAL E_{C_1} V	MAXIMUM I_K μA	MAXIMUM DEFL SENS mm/V	SCREEN COL	SCREEN PERS	DEFL ANGLE degree	BASE
5LO38I C	ELS	ELS	5	19	OS	H	6.3	600	300	0.5	1.0			60	1M	0.11	BL	MD		11L
6LK1A	ELM	ELM	6	27	IC	H	6.3	600		25.0				65	100		BL			
6LK1B C	ELM	ELM	6	27	PR	H	6.3	600			25.0			60	200		WH	SH		
6LO1I	ELS	ELS	5	14	OS	H	6.3	600	170	0.3	1.2			60	300	0.15	GR	MD		14A
7LO1M C	ELS	ELS	7	19	RA	H	6.3	600	235	1.4	2.8			76		0.13	PB	SH		A12
7LO55I C	ELS	ELS	7	19	OS	H	6.3	600	180	1.1	2.0			76	500	0.12	BL	MD		A12
8LK2B	ELM	ELM	8	26	TV	H	6.3	500		3.0				45	60		WH	MD		
8LM3V C	ELS	ELM	8	21	RA	H	6.3	600	400	0.7	4.0			50			WH	LO		A7
8LO3I	ELS	ELS	8	30	OS	H	6.3	600	300	0.8	2.3			85		1.0	GR	MD		
8LO4I	ELS	ELS	8	35	OS	H	6.3	300		0.7	3.7			75	300	1.5	GR	MD		
8LO29I C	ELS	ELS	8	26	OS	H	6.3	600	350	1.1	1.5			45		0.17	GR	MD		14G
8LO29M C	ELS	ELS	8	26	OS	H	6.3	600	350	1.1	1.5			45		0.17	PB	SH		14G
8LO30I C	ELS	ELS	8	27	OS	H	6.3	600	400	1.1	1.5			45		0.17	GR	MD		14J
8LO30M C	ELS	ELS	8	27	OS	H	6.3	600	400	1.1	1.5			45			PB	SH		14J
8LO39V C	ELS	ELS	8	27	OS	H	6.3	600	400	2.0	4.0			60		0.28	WH	LO		14J
9LO1I	ELS	ELS	9	35	OD	H	6.3	600		1.0	2.8			60		1.0	GR	MD		
10LK2B C	ELM	ELM	8	32	PR	H	1.5	25H		20.0				120	200		WH	MD		G8
10LK3B	ELM	ELM	10	30	TV	H	6.3	500		25.0				50	200		WH	MD		
10LO2I	ELS	ELS	10	36	OD	H	6.3	350		2.0	4.0			120		0.25	GR	MD		
10LO43I C	ELS	ELS	10	41	OD	H	6.3	600	550	1.0	2.5			60		0.20	GR	MD		A25
11LK1B	ELS	EL	M10	17	TV	H	1.4	28H	450	9.0				35	45					
11LM2G	ELM	ELM	11	29	DT	H	6.3	600		20.0				80						
11LM3G	ELM	ELM	11	36	DT	H	6.3	600		20.0				95						
13LK1B C	ELM	ELM	12	37	TV	H	6.3	550		6.0				76	100		WH	MD		D8
13LK2B C	ELM	ELM	S 8	31	TV	H	6.3	500		4.0				55	50		WH	SH		A9
13LK3B	ELM	ELM	13	31	TV	H	6.3	500		10.0				90	20		WH	MD		
13LK6B	ELM	ELM	13	38	TV	H	6.3	880		1.2	45.0			150	550		WH	MD		
13LK7B	ELM	ELM	13	39	TV	H	6.3	880		1.2	45.0			150	550		WH	MD		
13LK8A	ELS	ELM	13	43	PT	H	6.3	600	500	14.0				60			BL	SH		
13LM4V C	ELM	ELM	13	29	OS	H	6.3	600		0.4	12.0			50			WH	LO		A8
13LM6V	ELS	ELM	13	21	RA	H	6.3	600	425		14.0			50			YO	LO		
13LM7V	ELM	ELM	13	27	RA	H	6.3	600		0.2	12.0			70			YO	LO		
13LM31M C	ELM	ELM	11	28	OS	H	6.3	600	250	6.0				70			YO	LO		A8
13LM31V C	ELM	ELM	13	29	OS	H	6.3	600		0.2	4.0			50			WH	LO		A8
13LM56I C	ELM	ELM	13	29	RA	H	6.3	600		0.2	4.0			50			GR	MD		A8

GROUP VIII, CATHODE RAY TUBES

TYPE NUMBER		METH. OF FOCUS	METH. OF DEFL	DIMENSIONS DIAM cm	DIMENSIONS LENGTH cm	USE	CATHODE	TYPICAL HEATER E V	TYPICAL HEATER I mA	TYPICAL E_{Foc} V	TYPICAL E_{A_1} kV	TYPICAL E_{A_2} kV	TYPICAL E_{A_3} kV	TYPICAL E_{A_4} kV	TYPICAL E_{C_1} V	MAXIMUM I_K -μA	MAXIMUM DEFL SENS mm/V	SCREEN COL	SCREEN PERS	DEFL ANGLE degree	BASE
13LM57	C	FLM	ELM	11	28	OS	H	6.3	600	250		6.0			71			GR	LO		A8
13LM57D	C	FLS	ELM	13	29	OS	H	6.3	600		0.7	4.0			50			PB	LO		A8
13LM58K	C	FLS	ELM	13	29	OS	H	6.3	600		0.7	4.0			50			RD	LO		A8
13LN2		FLS	ELS	13	45	ST	H	6.3	550		3.0										
13L01B		ELS	ELS	13				2.5	2A	425	2.0				40			GR	MD		
13L02B		ELS	ELS	13				6.3	600	500	1.8	3.0			50			GR	MD		14J
13L031	C	FLS	ELS	14	43	OS	H	6.3	600	410	1.5	1.5	3.0		50		0.45	GR	MD		A14
13L041	C	ELS	ELS	14	43	OS	H	6.3	600	425	1.5	1.5	5.0	8.0	50		0.25	GR	MD		A14
13L05P		ELS	ELS	13				6.3	600	500	1.8	3.0			50			YO	LO		14J
13L06P		FLS	ELS	13	34	OS	H	6.3	600	400	1.5				45		0.38	YO	LO		A8
13L07V		FLS	ELS	14	45	OD	H	6.3	600	600	2.0	4.0	8.0		80		0.30	WH	LO		
13L09I		FLS	ELS	14	45	OS	H	6.3	600	300	1.2	4.8			40		1.0	GR	MD		
13L036	C	ELS	ELS	13	42	OS	H	6.3	600	690	2.0	4.0			60	100	0.34	YO	LO		14J
13L036V	C	ELS	ELS	14	43	OS	H	6.3	600	525		2.0	4.0		60		0.29	WH	LO		14J
13L037A	C	ELS	ELS	14	43	OS	H	6.3	600	400		1.5	3.0		50	1000	0.43	BL	SH		14J
13L048A	C	ELS	ELS	14	41	OD	H	6.3	600	400	1.2	1.5			60		0.25	BL	SH		A14
13L054A	C	ELS	ELS	14	43	OS	H	6.3	600	300	1.5	3.5	6.0	8.0		750	0.20	BL	SH		B14
13L0102M		ELS	ELS	13	61	OS	H	6.3	750	1K		15.0	40.0		300		0.15	BL	SH		
13L0104A		ELS	ELS	13	54	OS	H	6.3	600	700	.4	4.0	8.0	12.0	100		0.22	BL	SH		D14
16LK1B		ELS	EL	M16	19	TV	H	1.4	28H	450	9.0				40	60					
16LM1G		ELM	ELM	13	31	RA	H	6.3	600		20.0				90					50	
16L02I		FLS	ELS	13	45	OD	H	6.3	600	500		2.0	3.5		70		0.6	GR	MD		
16L03I		ELS	ELS	16	35	OS	H	6.3	600	450		1.5			45		0.7	GR	MD		
18LK1B		ELM	ELM	17	35	TV	H	2.5	21H		3.5				35			WH			D8
18LK2B	C	ELM	ELM	14	42	TV	H	6.3	550			15.0			60	100		WH	SH		D8
18LK3V		ELM	ELM	18				2.5	2A		3.5				60			GR	MD		
18LK4B	C	FLS	ELM	17	34	TV	H	6.3	600			6.0			60	150		WH	SH		B8
18LK5B	C	ELM	ELM	17	35	TV	H	6.3	520		4.0				30			WH	MD		B8
18LK7B	C	ELM	ELM	17	35	TV	H	6.3	560			4.0			35	100		WH	SH		B8
18LK9A		ELM	ELM	17	48	PT	H	6.3	550		25.0				125	250		BL	SH		
18LK11B		FLM	ELM	17	35	TV	H	6.3	550		8.0				75	100		WH	MD		
18LK12B		ELM	ELM	17	42	TV	H	6.3	550		15.0				100	100		WH	MD		
18LK13L		ELM	ELM	17	42	TV	H	6.3	550		25.0				140	200		BL	SH		
18LK14T		ELM	ELM	17	42	TV	H	6.3	550		25.0				140	500		GR	SH	40	
18LK15	C	ELM	ELM	17	34	TV	H	6.3	550		5.0				38	100		WH	MD		B8

GROUP VIII, CATHODE RAY TUBES

TYPE NUMBER	METH. OF FOCUS	METH. OF DEFL	DIMENSIONS DIAM cm	DIMENSIONS LENGTH cm	USE	CATHODE	TYPICAL HEATER E V	TYPICAL HEATER I mA	TYPICAL E_{Foc} V	TYPICAL E_{A_1} kV	TYPICAL E_{A_2} kV	TYPICAL E_{A_3} kV	TYPICAL E_{A_4} kV	TYPICAL E_{C_1} V	MAXIMUM I_K µA	MAXIMUM DEFL SENS mm/V	SCREEN COL	SCREEN PERS	DEFL ANGLE degree	BASE
18LM3S	ELS	ELM	18	29	RA	H	6.3	600	425	0.4	14.0			50			YO	LO		
18LM3S C	ELM	ELM	15	34	OS	H	6.3	600	250		6.0			48			YO	LO		
18LM35V C	ELM	ELM	18	35	RA	H	6.3	600			4.0			50	500		WH	LO		A8
18L01A	ELS	ELS	18	47	OD	H	6.3	600	1K	0.2	4.0	8.0		130		0.23	BL	SH		A8
18L040B C	ELS	ELS	18	36	TV	H	6.3	600		2.0				120			WH	MD		14G
18L047A C	ELS	ELS	18	45	OD	H	6.3	600		1.0	2.0	6.0		100		0.23	BL	SH		A25
18L047V C	ELS	ELS	18	45	OD	H	6.3	600		1.0	2.0	6.0		100			WH	LO		A25
19LK4B C	ELM	ELM	17		TV	H	6.3	600		6.0				60						
20LM1YE	ELS	ELM	20	46	OD	H	6.3	12H		0.3	4.0	8.0		60	300		GR	LO		
22L01A	ELS	ELS	15	48	50	H	6.3	600	500		2.0	4.0		70		0.6	BL	SH		
23LK1B C	ELM	ELM	19	38	TV	H	6.3	550		8.0				50			WH	MD		D8
23LK2B C	ELM	ELM	22	47	TV	H	6.3	550			10.0			18	100		WH	SH		D8
23LK5B	ELM	ELM	24	42	TV	H	6.3	550		12.0				80	100		WH	MD		
23LK6I	ELM	ELM	24	49	PT	H	6.3	550		25.0				100	150		GR	MD		
23LK7B	ELM	ELM	R18	40	TV	H	6.3	520		8.0				55	100		WH	MD		D8
23LK8B	ELM	ELM	S16	49	TV	H	6.3	550		15.0				60	100		WH	SH		D8
23LK9B	ELS	ELM	R23	18	TV	H	12.0	65	250	9.0				25	150		WH	MD	90	
23LK41I	ELM	ELM	24	42	TV	H	6.3	550		8.0				65	200		YG	MD		
23LM3S	ELS	ELM	23	34	RA	H	6.3	600	425	0.4	14.0			50			YO	LO		
23LM34 C	ELM	ELM	19	43	RA	H	6.3	600	250	6.0				48			YO	LO		
23LM34V C	ELM	ELM	23	46	RA	H	6.3	600		0.2	4.0			50			YO	LO		A8
23L051A C	ELS	ELS	23	57	OS	H	6.3	600	55H	6.0	20.0			200		0.03	BL	SH		A20
25LM1V	ELM	ELM	23	35	RA	H	6.3	550		10.0				60			YO	LO		
30LK1B C			30	45	TV	H	6.3	600		10.0				75						D8
31LK1B C	ELM	ELM	31		TV	H	6.3	550		10.0				52	150		WH	MD		D8
31LK2B C	ELM	ELM	30	47	TV	H	6.3	600		10.0				55	150		WH	MD		B8
31LM32 C	ELM	ELM	25	51	OS	H	6.3	600	250	6.0				48			YO	LO		
31LM32V C	ELM	ELM	31	54	RA	H	6.3	600		0.2	4.0			50	350		WH	LO		A8
31L01P	ELM	ELM	31						250	1.8				50			GR	MD		A8
31L033 C	ELS	ELS	25	56	OS	H	6.3	600	1K	4.3	5.5			150			YO	LO		
31L033V C	ELS	ELS	31	57	OS	H	6.3	600		1.1	4.3	5.5		140			WH	LO		14J
35LK1B	ELS	EL	M32	38	TV	H	6.3	600	425	12.0				90	150					
35LK2B C	ELS	ELM	R28	46	TV	H	6.3	600	300	12.0				60	150		WH	SH		C8
35LK4B	ELS	ELM	R33	44	TV	H	6.3	520	250	14.0				60	100		WH	MD	70	
40LK1B C	ELM	ELM	40	49	TV	H	6.3	550		12.0				70	100		WH	MD		B8

GROUP VIII, CATHODE RAY TUBES

TYPE NUMBER		METH. OF FOCUS	METH. OF DEFL	DIMENSIONS DIAM cm	DIMENSIONS LENGTH cm	USE	CATHODE	TYPICAL HEATER E V	TYPICAL HEATER I mA	TYPICAL E_{Foc} V	TYPICAL E_{A_1} kV	TYPICAL E_{A_2} kV	TYPICAL E_{A_3} kV	TYPICAL E_{A_4} kV	TYPICAL E_{C_1} V	MAXIMUM I_K µA	MAXIMUM DEFL SENS mm/V	SCREEN COL	SCREEN PERS	DEFL ANGLE degrees	BASE
42LM2YE		ELS	ELM	42	59	RA	H	6.3	12H	4K	4.5	11.5	20.0		60	300		OG	LO		
43LK2B	C	ELS	ELM	R37	50	TV	H	6.3	600	300	0.3	14.0			60	100		WH	MD	70	B12
43LK3B	C	ELS	ELM	S43	51	TV	H	6.3	600		0.5	14.0			60	150		WH	SH		B12
43LK6B	C	ELS	ELM	S45	30	TV	H	6.3	600		0.3	0.5	14.0		25			WH	SH	110	A7
43LK7B	C	ELS	ELM	S45	50	TV	H	6.3	600		0.3	0.3	14.0		60	35		WH	SH	68	B12
43LK8B	C	ELS	ELM	S45	50	TV	H	6.3	600		0.3	0.5	14.0		50	100		WH	SH		B7
43LK9B		ELS	ELM	R37	33	TV	H	6.3	600	425	0.3	14.0			60	30		WH	MD	110	A7
45LM1B		ELM	ELM	45	56	RA	H	6.3	600		0.4	12.0			60	350		YO	LO		A8
45LM2U		ELM	ELM	44	51	RA	H	6.3	600		0.5	14.0			60			GR	SH		
45LM3N		ELM	ELM	44	54	RA	H	6.3	550		14.0				60			YG	LO		
47LK1B		ELS	ELM	S47	31	TV	H	6.3	300	400	0.4	16.0			55	120		WH	SH	110	C8
47LK2B		ELS	ELS	R41	30	TV	H	6.3	300	400	0.4	16.0			80	300		WH	MD	110	
51LS1		ELS	ELS	51	104	CH	H	6.3	600	500	3.5	7.0			90						
53LK2B	C	ELS	ELM	R48	61	TV	H	6.3	600	300	0.3	16.0			60	150		WH	MD		B12
53LK3B	C			S50	58	TV	H	6.3	600	300	0.4	16.0			140						B7
53LK4TS		ELS	ELM	R47	65	TV	H	6.3	18H	3K	20.0				70	500		3C			
53LK5B	C	ELS	ELM	S45	38	TV	H	6.3	600	300	0.5	16.0			25	100		WH	SH	110	B7
53LK6B		ELS	ELM	S48	385	TV	H	6.3	600	425	0.3	0.5	16.0		90	30		WH	SH	110	A7
59LK1B		ELS	ELM	S59	37	TV	H	6.3	300	425	0.4	16.0			55			WH	SH	110	C8
59LK2B		ELS	ELM	S59		TV		6.3		400	0.4	16.0			80	300		WH	MD	110	
65LK1B		ELS	EL	M38	62	TV	H	6.3	300	400	20.0				80	300					

GROUP IX, MICROWAVE TUBES

TYPE NUMBER	KIND	FREQ MIN GHz	FREQ MAX GHz	DUTY CYL %	OPERATION	CATHODE E_f V	CATHODE I_f mA	MAXIMUM E_b V	MAXIMUM I_b mA	MAXIMUM P_o mW	MAXIMUM COL. V	MAXIMUM E_g V	MAXIMUM HELIX V	MAXIMUM GAIN dB	MAXIMUM NF dB	MAXIMUM VSWR	MAXIMUM BAND WIDTH MHz	MAXIMUM MAG FIELD GAUSS	COUPLING	DIMEN. LTH mm	DIMEN. DIAM mm	WT g
2J55	MAG		13.3	1	P			12K	12A	53W								33H				
3J21	MAG		24.5		P			15K	15	60W												
4J26-30	MAG		1.2	1	P			27K	46A	700W								14H				
4J45	MAG		2.8	1	P			23K	45	650W												
4J50	MAG		12.1	1	P			22K	27A	28W								69H				
GSH-5	NOI	10.0	26.0			6.3			70						18							
UV-5	TWT	3.4	4.4			3.0	900	180	1	/1	600	12	500	18	8	1.6			WG	388	17	83
GSH-6	NOI	25.4	52.0			6.3			60						18							
UV-6	TWT	3.4	4.4			4.0	950	500	4	30	1300	30	11H	30		1.6			WG	388	17	95
UV-7	TWT	3.4	4.4			6.3	850	1400	35	3W	1500	80		26		1.6			WG	397	17	100
GSH-10	NOI	2.6	8.4			6.3			150						18							
GSH-11	NOI	8.4	11.6			6.3			150						18							
K-12	KLO	2.5	3.6		C	6.3		250	40	100										77	30	
K1U12	KLA	2.8			P	9.5		280K		20				40			14	800	WG	H13	300	50K
M1-12	MAG	3.0	3.1		P			15K	18A	100W								18H				
UV-13	TWT	3.4	4.4			2.4		600	350U	5				20	9			600				
M1-14	MAG	2.9	3.0		P			15K	18A	100W								18H				
UV-14	TWT	3.4	4.4			4.5		1300	5	100				30	25			PM				
K-15	KLO	3.1	5.6		C	6.3		250	50	50										68	25	
K1U15	KLA	1.8			P	12.0		280K		30				35			18	700	WG	H15	400	75K
M1-15	MAG	2.9	2.9		P			15K	18A	100W								18H				
M1-16	MAG	2.8	2.8		P			15K	18A	100W								18H				
K-26	KLO	0.5	0.7		C	6.3		250	60	100										140	33	
GSH-28	NOI	64.0	76.0			6.3			100						17							
GSH-29	NOI	52.0	65.0			6.3			100						17							
K-29	KLO	8.8	10.3		C	6.3		320	45	15										150	58	
K-30	KLO	7.7	9.1		C	6.3		320	50	15										150	58	
K-31	KLO	7.0	8.1		C	6.3		320	50	20										141	46	
K-32	KLO	5.6	7.1		C	6.3		320	50	20										141	56	
K-33	KLO	14.3	16.7		C	6.3		400	45	10										150	58	
K-34	KLO	12.0	14.4		C	6.3		400	45	10										150	58	
K-35	KLO	10.0	12.1		C	6.3		350	45	10										150	58	
K-41	KLO	1.4	2.5		C	6.3		250	60	80										85	30	
K-42	KLO	0.9	1.5		C	6.3		250	60	80										85	30	
K-48	KLO	3.4	4.4		C	6.3		180	70	100										70	25	

GROUP IX, MICROWAVE TUBES

TYPE NUMBER	KIND	FREQ MIN GHz	FREQ MAX GHz	DUTY CYL %	OPERATION	CATHODE E_f V	CATHODE I_f mA	MAXIMUM E_b V	MAXIMUM I_b mA	MAXIMUM P_o mW	MAXIMUM COL. V	MAXIMUM E_g V	MAXIMUM HELIX V	MAXIMUM GAIN dB	MAXIMUM NF dB	MAXIMUM VSWR	MAXIMUM BAND WIDTH MHz	MAXIMUM MAG FIELD GAUSS	COUPLING	DIMEN LTH mm	DIMEN DIAM mm	WT g
M1-51	MAG	9.5	9.5		P			13K	16A	65W								48H				
M1-52	MAG	9.4	9.5		P			13K	16A	65W								48H				
M1-53	MAG	9.3	9.4		P			13K	16A	65W								48H				
M1-54	MAG	9.3	9.3		P			13K	16A	65W								48H				
M62	MAG	2.4	2.4		C			2300	150	150W								18H		200	140	700
K-92A	KLO	3.4	3.6		C	6.3		850	90	1W	600									160	140	2K
K-92B	KLO	3.5	3.7		C	6.3		850	90	1W	600									160	140	2K
K-92G	KLO	4.0	4.3		C	6.3		850	90	1W	600									160	140	2K
K-92V	KLO	3.7	4.0		C	6.3		850	90	1W	600									160	140	2K
M1-95	MAG	9.2	9.3		P			13K	16A	65W								48H				
M1-120	MAG	2.8	2.8					5K	7A	250W								13H				
M1-137	MAG	1.8	1.8					23K	25A	250W								16H				
UV-204	TWT	3.4	3.9			13.2		2800	75	20W				20				500				
UV-205	TWT	3.4	4.4			6.3		1400	55	4W				30	30			750				
KU304	KLA	0.8	0.9		C	6.5		16K		10W				40			6	250	CO	H12	400	60K
KU304A	KLA	0.8	0.8		C	6.5		15K		10W				37			10	350	CO	H10	400	65K
K-308	KLO	3.4	4.0		C	6.3		220	130	500										73	25	
KU308	KLA	0.8	1.0		C	10.0		10K		4W				45			8	400	CO	H10	206	35K
KU309	KLA	0.5	0.6		C	4.0		9K		3W				40				300	CO	H10	250	50K
KU310A	KLA	0.5	0.6		C	5.0		15K		15W				35			8	500	CO	H12	250	85K
KU310B	KLA	0.6	0.6		C	5.0		15K		15W				35			8	500	CO	H14	250	85K
K-351	KLO	2.7	3.3		C	6.3		250	40	80										80	29	
K-352	KLO	3.2	7.5		C	6.3		250	40	10										68	25	
410R	KLO																					
UV-421	TWT	0.9	1.2			2.8		200	300U	5				18	/9			360				
UV-422	TWT	0.6	1.0			2.8		450	700U	5				15	8			420				
UV-438	TWT	3.5	5.3			3.0		560	400U	5				25	11			600				
UV-440	TWT	1.5	2.4			2.5		400	700U	10				25	10			500				
M-532	MAG	2.3	3.6					5000	200	100W								22H		273	70	25H
M571	MAG	2.4	2.4		C			3600	1150	25HW								12H		210	160	15H
M1-588	MAG	36.4	37.1					15K	12A	28W								PM				
M1-589A	MAG	9.4	9.5					135H	20A	95W								PM				
M1-589B	MAG	9.3	9.4					135H	20A	95W								PM				
M1-589V	MAG	9.3	9.3					135H	20A	95W								PM				
OV-612	BWT	37.5	53.6			5.0		1500	50	200	400			10						200	130	5K

GROUP IX, MICROWAVE TUBES

TYPE NUMBER	KIND	FREQ MIN GHz	FREQ MAX GHz	DUTY CYL %	OPERATION	CATHODE E_f V	CATHODE I_f mA	MAXIMUM E_b V	MAXIMUM I_b mA	MAXIMUM P_o mW	MAXIMUM COL. V	MAXIMUM E_g V	MAXIMUM HELIX V	MAXIMUM GAIN dB	MAXIMUM NF dB	MAXIMUM VSWR	MAXIMUM BAND WIDTH MHz	MAXIMUM MAG FIELD GAUSS	COUPLING	DIMEN LTH mm	DIMEN DIAM mm	WT g
OV-613	BWT	52.6	81.0			5.0		1500	50	80	400			10						200	130	5K
OV-614	BWT	79.0	H1.2			6.3		2500	50	50	400			10						200	130	5K
OV-621	BWT	H1.8	H2.0			6.3		3000	50	15	500			13						240	140	95H
OV-622	BWT	H1.2	H1.8			6.3		4000	50	50	500			13						240	140	95H
700AD	MAG		0.6	20	P			12K	10A	40W								65 0				
706AU	MAG		3.1		P			22K	20	200W												
707A/B	KLO	2.4	3.5		C	6.3	250		100	275							20					
714AU	MAG		3.3	1	P			19K	20A	165W								22H				
720AYE	MAG		2.8	/1	P			27K	65A	1M								29H				
723A/B	KLO	8.5	9.6		C	6.3	300	20	30	300							70					
725A	MAG		9.3		P			12K	10	44W												
726	KLO	2.9	3.2		C	6.3	300	20	170	300							30					
K-743	KLO	33.3	36.6		C			1800	15	10												
K-744	KLO	27.3	33.3		C			1800	15	10												
K-745	KLO	23.0	27.3		C			1500	15	15												
K-746	KLO	20.0	23.0		C			1200	15	15												
K-747	KLO	16.7	20.0		C			1200	15	15												
K-765	KLO	75.0	79.0		C			2400	15	15												
K-766	KLO	70.0	75.0		C			2400	15	15												
K-767	KLO	64.0	70.0		C			2400	15	20												
K-768	KLO	57.6	66.4		C			2400	15	20												
K-769	KLO	52.7	57.6		C			2400	15	20												
K-770	KLO	43.0	52.7		C			2000	15	20												
K-771	KLO	36.2	43.0		C			2000	15	20												
K-801	KLO	2.4	6.1		C	6.3		250	150	100										82	29	
K-802	KLO	2.4	6.1		C	6.3		250	150	100										82	29	
K-803	KLO	2.4	6.1		C	6.3		250	150	100										82	29	
K-804	KLO	2.4	6.1		C	6.3		250	150	100										82	29	
K-805	KLO	2.4	6.1		C	6.3		250	150	100										82	29	
K-806	KLO	2.4	6.1		C	6.3		250	150	100										82	29	
K-807	KLO	2.4	6.1		C	6.3		250	150	100										82	29	

GROUP X, TRANSISTORS

TYPE NUMBER	KIND	MAXIMUM									TYPICAL			MAXIMUM			MINIMUM		TYP	MIN	MAXIMUM		FIG
		V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} μA	P_C mW	K_θ mW/°C	T_A °C	COMMON	V_C V	I mA	h_{11} Ω	h_{12} 10^{-5}	h_{22} μmho	h_{21}	f_α *f_T MAX MHz	NF dB	K_M dB	C_{ob} pF	$r_b'C_c$	
P1A	GAP	20			5	5	30	50	10	70	E	10	1			3.3	0.90	0.1		30			1
P1B	GAP	20			5	5	30	50	10	70	E	10	1			2.0	0.93	0.1	35	33		400	1
P1D	GAP	20			5	5	15	50	10	70	E	10	1			2.0	0.94	0.1	18	33		600	1
P1G	GAP	20			5	5	30	50	10	70	E	10	1			2.0	0.96	0.1		37		600	1
P1I	GAP	20			5	5	20	50	10	70	E	10	1			2.0	0.96	1.6	35		40		1
P1V	GAP	20			5	5	15	50	10	70	E	10	1			1.0	0.93	0.1	35	37		400	1
P1YE	GAP	20			5	5	30	50	10	70	E	10	1			2.0	0.95	0.5	35	30	60	1K	1
P1ZH	GAP	20			5	5	20	50	10	70	E	10	1			3.3	0.95	0.1	35	35	45	1K	1
1T303A	GDN	12	2	10	15		8	100	3	70	E	5	5				15				10	*1K	13
1T303B	GDN	12	2	10	15		8	100	3	70	E	5	5				30				10	*1K	13
1T303D	GDN	12	2	10	15		8	100	3	70	E	5	5				30				10	*1K	13
1T303G	GDN	12	2	10	15		8	100	3	70	E	5	5				15				10	*1K	13
1T303V	GDN	12	2	10	15		8	100	3	70	E	5	5				60				10	*1K	13
1T303YE	GDN	12	2	10	15		8	100	3	70	E	5	5				60				10	*1K	13
1T308A	GDP	20	3	15	50		1	150		85	E	1	10			30	25	90	6		8	*4H	12
1T308B	GDP	20	3	15	50		1	150		85	E	1	10			50	50	120	6		8	*4H	12
1T308G	GDP	20	3	15	50		1	150		85	E	1	10			80	1H	120	6		8	*5H	12
1T308V	GDP	20	3	15	50		1	150		85	E	1	10			80	80	120			8	*5H	12
1T403A	GAP	45	20	30	12H		50		70	85	C	5	100			50	20	/0.1					28
1T403B	GAP	45	20	30	12H		50		70	85	C	5	100			50	50	/0.1					28
1T403D	GAP	60	30	45	12H		50		70	85	C	5	100			50	50	*/.1					28
1T403G	GAP	60	20	45	12H		50		70	85	C	5	100			50	50	/0.1					28
1T403I	GAP	80	20	60	12H		70		70	85	C	5	100			50	50	/0.1					28
1T403V	GAP	60	20	45	12H		50		80	85	C	5	100			50	20	/0.1					28
1T403YE	GAP	60	20	45	12H		50		80	85	C	5	100			50	30	/0.1					28
1T403ZH	GAP	80	20	60	12H		70		70	85	C	5	100			50	20	/0.1					28
P2A	GAP	100			10	10	200	250	10	60	C	50	5				0.90			17			1
P2B	GAP	50			25	25	200	250	10	60	C	25	10				0.90			17			1
2T301	SDN	20	3	20		10	40	150	2	120	E	10	3			3.0	20	30			10		27
2T301A	SDN	20	3	20		10	40	150	2	120	E	10	3			3.0	40	30			10		27
2T301B	SDN	30	3	30		10	40	150	2	120	E	10	3			3.0	10	30			10		27
2T301D	SDN	20	3	30		10	40	150	2	120	E	10	3			3.0	20	60			10		27
2T301G	SDN	20	3	30		10	40	150	2	120	E	10	3			3.0	10	60			10		27
2T301V	SDN	30	3	30		10	40	150	2	120	E	10	3			3.0	20	30			10		27
2T301YE	SDN	20	3	20		10	40	150	2	120	E	10	3			3.0	40	60			10		27

GROUP X, TRANSISTORS

TYPE NUMBER		KIND	MAXIMUM V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} μA	P_C mW	K_θ mW/°C	T_A °C	TYPICAL COMMON	V_C V	I mA	MAXIMUM h_{11} Ω	h_{12} 10^{-5}	h_{22} μmho	MINIMUM h_{21}	f_α @ $f_{T\,MAX}$ MHz	TYP NF dB	MIN K_M dB	MAXIMUM C_{ob} pF	$r_b'C_c$	FIG
2T301ZH		SDN	20	3	20		10	40	150	2	120	E	10	3			3.0	80	60			10		27
P3A		GAP	50		50	150		500	3W	100	50	C	10	150				2.0	0.1		17			2
P3B		GAP	50		50	250		250	3W	100	50	C	10	150				2.0	0.1		20			2
P3V		GAP	50		50	450		250	3W	100	50	C	10	150				2.0	0.1		25			2
P4		G	55			2A			10W															
P4A		GAP	60	50	40	2A		500	2W	500	90	C	10	2A			5.0	5.0	0.1		20		150	22
P4B		GAP	70	60	50	2A		400	3W	500	90	C	10	2A			15	15	0.1		23		150	22
P4D		GAP	60	50	30	2A		400	3W	500	90	C	10	2A			50	30	0.1		30		150	22
P4G		GAP	60	50	40	2A		400	3W	500	90	C	10	2A			15	15	0.1		27		150	22
P4L	*	GAP	50			2A		500	3W	500	50	C	10	2				20	0.1		30		150	22
P4V		GAP	40	35	25	2A		400	3W	500	90	C	10	2A			10	10	0.1		23		150	22
P5A	*	GAP	10	20	10	10	10	30	25	1	75	E	2	1	36	500	3.3	15	0.3	12		80		4
P5B	*	GAP	10	20	10	10	10	15	25	1	75	E	2	1	36	500	2.6	20	0.3	12		80		4
P5D	*	GAP	10	20	10	10	10	15	25	1	75	E	2	1	36	500	2.6	20	0.3	7		80		4
P5G	*	GAP	10	20	10	10	10	15	25	1	75	E	2	1	36	500	2.6	30	0.3	10		80		4
P5V	*	GAP	10	20	10	10	10	15	25	1	75	E	2	1	36	500	2.6	30	0.3	15		80		4
P5YE	*	GAP	10	20	10	10	10	15	25	1	75	E	2	1	36	500	2.6	20	0.3	18		80		4
P6A	*	GAP	30	30	10	10	10	10	150	2	100	E	5	1	32	500	3.3	10	0.1	30	30	50		10
P6B	*	GAP	30	30	10	10	10	5	150	2	100	E	5	1	32	60	2.0	10	0.5	30	34	50		10
P6D	*	GAP	30	30	10	10	10	5	150	2	100	E	5	1	32	60	2.0	10	0.5	12	34	50		10
P6G	*	GAP	30	30	10	10	10	5	150	2	100	E	5	1	32	60	3.3	30	1.0	30	37	50		10
P6V	*	GAP	30	30	10	10	10	5	150	2	100	E	5	1	32	60	2.0	10	0.5	30	34	50		10
P7		GAP	13		6	45		5	45		50	E	2	1				30						4
P8		GAN	15	15	25	20	10	30	150	5	85	E	5	1	34	500	2.5	10	1.0	15	32	65	150	10
P8A	*	GAN																						10
P9		GAN	20	20	15	20	10	15	150	2	100	E	5	1	32	60	2.0	10	0.5	12	32	60		10
P9A		GAN	15	15	15	20		15	150	5	85	E	5	1	32	60	2.5	15	1.0	5	32	60	150	10
P10		GAN	15	15	15	20	10	15	150	5	85	E	5	1	32	60	2.5	15	1.0	5	32	60	150	10
P10A		GAN	30	30	30	20		15	150	5	85	E	5	1			2.5	15	1.0			60	150	10
P10B		GAN	30	30	30	20		15	150	5	85	E	5	1			2.5	25	1.0			60	150	10
P11		GAN	15	15	15	20	10	15	150	5	85	E	5	1	32	60	2.5	25	2.0	5	32	60		10
P11A		GAN	15	15	15	20		15	150	5	85	E	5	1			2.5	45	2.0			60	150	10
P12		GAP			6	5	5	6	30	2	85	E	6	1			2.0	20	5.0			20	150	17
P12A		GAP	6		6	5	5	6	30	1	70	E	6	1			.2	20	5.0			20	150	17
P13		GAP	15	15	15	20	10	15	150	3	100	E	5	1		500	3.3	12	0.5	33		50		10

GROUP X, TRANSISTORS

TYPE NUMBER	KIND	MAXIMUM									TYPICAL			MAXIMUM			MINIMUM		TYP	MIN	MAXIMUM		FIG
		V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} μA	P_C mW	K_θ mW/°C	T_A °C	COMMON	V_C V	I mA	h_{11} Ω	h_{12} 10^{-5}	h_{22} μmho	h_{21}	f_α @ f_T MAX MHz	NF dB	K_M dB	C_{ob} pF	$r_b{}'C_c$	
P13A	GAP	30			20	10	15	150	2	100	E	5	1		60	2.0	20	0.5	33		50		10
P13B	GAP	15	15	15	20	10	15	150	3	100	E	5	1		60	3.3	20	0.5	12		50		10
P14	GAP	15	15	15	20	10	15	150	3	100	E	5	1		500	3.3	20	1.0	33		50	150	10
P14A	GAP	30	30	30	20	20	15	150	3	85	E	5	1	32	700	3.3	20	1.0			50	150	10
P14B	GAP	30	30	30	20	20	15	150	3	85	E	5	1	32	500	3.3	30	1.0			50	150	10
P15	GAP	15	15	15	20	10	15	150	3	100	E	5	1		500	3.3	30	2.0	33		50	150	10
P15A	GAP	15	15	15		20	15	150	3	85	E	5	1	32	500	3.3	50	2.0			50	150	10
P16	GAP	30	15	15	50	50	25	200	5	100							20	1.0			50		10
P16A	GAP	30	15	15	50	50	25	200	5	100							30	1.0			50		10
P16B	GAP	30	15	15	50	50	25	200	5	100							45	1.0			50		10
P17	GAP	40			400		200	150									9	0.2		20			8
P17A	GAP	40			400		200	150									16	0.2		20			8
P17B	GAP	40			400		200	150									32	0.2		20			8
P18	GAP	70			400		200	150									9	0.2		20			8
P18A	GAP	70			400		200	150									16	0.2		20			8
P18B	GAP	70			400		200	150									32	0.2		20			8
P19	GAP	20	20	6	30	5	6	30	1	90	E	5	1	33		2.0	20	5.0	5		20	150	3
P20	GAP	50		20	300	1	50	150			C		25				50	1.0			20		10
P20A	GAP	30		20	300		50	150		85							50	2.0					10
P20B	GAP	30		20	300		50	150		85							80	1.5					10
P21	GAP	50			30	1	50	150	3	85	C	5					20	1.0					10
P21A	GAP	30		20	500	1	50	150	3	85	C	5	25				20	1.0			20		10
P21B	GAP	30		20	500		50	150	3	85	C	5	25				20	1.0			20		10
P21D	GAP	50		30	300		50	150		85							60	1.0					10
P21G	GAP	40		30	300		50	150		85							20	1.0					10
P21V	GAP	60		35	300		50	150									20	1.5					10
P21YE	GAP	70		35	300		50	150		85							30	0.7					10
P22	GAP	40		20	10		25	100		85						3.3	5	1.0			20		10
P23	GAP	35		30	10		25	100		85						3.3	5	2.0			18		10
P25	GAP	40	60	60	300	6	75	200	5	75	E	20	/2			3.5	10	0.2		20	50	500	10
P25A	GAP	40	60	60	400	6	75	200	5	75	E	20	/2			3.5	20	0.2		20	50	500	10
P25B	GAP	40	60	60	400	6	75	200	5	75	E	20	/2			3.5	30	0.5		20	50	500	10
P26	GAP	70	100	100	430	6	75	200	5	75	E	20	/2			3.5	10	0.2		20	50	500	10
P26A	GAP	70	100	100	400	6	75	200	5	75	E	20	/2			3.5	20	0.2		20	50	500	10
P26B	GAP	70	100	100	400	6	60	200	5	75	E	20	/2			3.5	30	0.5		20	50	500	10

GROUP X, TRANSISTORS

TYPE NUMBER	KIND	MAXIMUM									TYPICAL			MAXIMUM			MINIMUM		TYP	MIN	MAXIMUM		FIG
		V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} μA	P_C mW	K_θ mW/°C	T_A °C	COMMON	V_C V	I mA	h_{11} Ω	h_{12} 10^{-5}	h_{22} μmho	h_{21}	f_α @ $f_{T\,MAX}$ MHz	NF dB	K_M dB	C_{ob} pF	$r_b'C_{b'c}$	
P27	GAP	5		5	6		3	30	1	70		5	/1			2.0	20	1.0	10		50	*6K	17
P27A	GAP	5		5	6		3	30	1	70	E	5	/1			1.0	20	1.0	5		50	*6K	17
P28	GAP	5		5	6		3	30	1	70	E	5	/1			1.0	20	5.0	5		50	*6K	17
P29	GAP	12	12	10	100		4	30	1	70		/1	/1				25	5.0			20		17
P29A	GAP	12	12	10	100		4	30	1	70							45	5.0			20		17
P30	GAP	12	12	10	100		4	30	1	70							80	10.0			20		17
P31	GAP			12	100		5	30									25	4.5			50		17
P31A	GAP			12	100		5	30									45	4.5			60		17
P32	GAP			12	100		5	30									45	9.0			20		17
P35	GAN	15		15	20		30	150		75						3.3	10	0.5			60		10
P36A	GAN	15		15	20		30	150		75						3.3	15	1.0			60		10
P37	GAN	15		15	20		30	150		75						3.3	15	1.0			60		10
MP37A	GAN	30		30	20		30	150	5	75						3.3	15	1.0			50		17
MP37B	GAN	30		30	20		30	150	5	75						3.3	25	1.0			60		17
P38	GAN	15		15	20		30	150		75						3.3	25	2.0			60		10
MP38A	GAN	15		15	20		30	150	5	75						3.3	45	2.0			60		17
P39	GAP	10	5	10	150		15	150		85						3.3	12	0.5			60		10
P39B	GAP	10	5	10	150		15	150	5	85	E	5	1			3.3	20	0.5	12		60	220	10
P40A	GAP	20	5	30	150		15	150	5	85	E	5	1			3.3	20	1.0			60	220	10
P40	GAP	10	5	10	150		15	150	5	85	E	5	1			3.3	20	1.0			60	220	10
P40B	GAP			30	20		15	150		85							30	1.0			60		10
P41	GAP	10	5	10	150		15	150	5	85	E	5	1			3.3	30	1.0			60	220	10
P41A	GAP	10	5	10	150		15	150	5	85	E	5	1			3.3	50	1.0			60	220	10
P42	GAP	15		15	150		25	200		85		1	10				20	1.0					10
P42A	GAP	15		15	150		25	200	5	70	C	1	10				30	1.0					10
P42B	GAP	15		15	150		25	200	5	70	C	1	10				45	1.0					10
P101	SAN	20		10	20	20	1	150	2	120	E	5	1	100	300	3.3	10	0.2	15	25	150		10
P101A	SAN	10	10	10	20	20	1	150	2	120	E	5	1	100	300	3.3	10	0.2	18		150		10
P101B	SAN	20	20	20	20	20	1	150	2	150	E	5	1	100	300	3.3	15	0.2	15		150		10
P102	SAN	10	10	10	20	20	1	150	2	120	E	5	1	100	300	2.0	18	0.5	15		150		10
P103	SAN	10	10	10	20	20	1	150	2	120	E	5	1	100	300	3.3	30	1.0	15		150		10
P103A	GAN			10	20		3	150									30	1.0			100		10
P104	SAP	60	45	60	10	10	1	150	2	150	E	5	1	140		3.3	9.0	0.1			80	1K	10
P105	SAP	30	45	30	10	10	1	150	2	150	E	5	1	140		3.3	9.0	0.1			80	1K	10
P106	SAP	15	45	15	10	10	1	50	2	150	E	5	1	80		2.0	13.5	0.5			80	/2K	10

GROUP X, TRANSISTORS

TYPE NUMBER	KIND	MAXIMUM								TYPICAL			MAXIMUM			MINIMUM		TYP	MIN	MAXIMUM		FIG
		V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} µA	P_C mW	K_θ mW/°C	T_A °C	COMMON	V_C V	I mA	h_{11} Ω	h_{12} 10^{-5}	h_{22} µmho	h_{21}	f_α *$f_{T\,MAX}$ MHz	NF dB	K_M dB	C_{ob} pF	$r_b{}'C_c$	
P107	SAN	120					1	150									15	3.0					
GT108A	GAP	18			50		10	75	1		E	5	1			3.3	20	0.5			50		9A
GT108B	GAP	18			50		10	75	1		F	5	1			3.3	35	1.0			50		9A
GT108G	GAP	18			50		10	75	1		F	5	1			3.3	H1.1	1.0			50		9A
GT108V	GAP	18			50		10	75	1		E	5	1			3.3	60	1.0			50		9A
P108	GAN			10	20		/1	150									20	*1.0			50		10
P108A	GAN			10	20		/1	150									13	1.0			50		10
GT109A	GAP	15		6	20		5	30	/1	80	E	5	/1			3.3	20	1.0			30	*3K	29
GT109B	GAP	15		6	20		5	30	/1	80	F	5	/1			3.3	35	1.0			30	*3K	29
GT109D	GAP	15		6	20		2	30	/1	55	F	5	1			3.3	20	3.0			40	*3K	29
GT109G	GAP	15		6	20		5	30	/1	80	F	5	/1			3.3	H1.1	1.0			30	*3K	29
GT109I	GAP	15		6	20		5	30	/1	80						3.3	20		12		30	*3K	29
GT109V	GAP	15		6	20		5	30	/1	80	F	5	/1			3.3	60	1.0			30	*3K	29
GT109YF	GAP	15		6	20		2	30	/1	55	F	5	1			3.3	50	5.0			40	*3K	29
GT109ZH	GAP	15		6	20		5	30	/1	80						3.3	1H				30	*3K	29
P109	GAN			10	20		/1	150									13	*2.0			50		10
P110	GAN			10	20		/1	150									15	*3.0			30		10
P111	SAN	20	5	20	20		3	150		120					300	2.0	10	0.5			170		17
P111A	SAN	10	5	15	20		3	150		120					300	2.0	10	0.5	18		170		17
P111B	SAN	20	5	20	20		3	150		120					300	2.0	15				170		17
P112	SAN	10	5	15	20		3	150		120					300	2.0	15	0.5			170		17
MP113	SAN	10	5	10	20		3	150		100	F	5	1	1	300	2	15	1.0			170		17
MP113A	SAN	10	5	10	20		3	150		100	F	5	1	1	300	2	35	1.2			170		17
MP114	SAP	60	10	60	10		10	150		100	E	5	1	300	60		9	0.1					17
MP115	SAP	30	10	30	10		10	150		100	F	5	1	300	64		9	0.1					17
MP116	SAP	15	10	15	10		10	150		100	E	5	1	300	114		15	0.5					17
P135	GAP	30				10	10	150		100		5	1		60	2.0	0.92	0.5	12		50		10
P201	GAP	45	45	30	15H		400	1W	300	100							20	0.1	25				25
P201A	GAP	45	45	30	15H		400	1W	300	100							40	0.2	25				25
P202	GAP	70	35	55	15H		400	1W	300	100							20	0.1	30				25
P203	GAP	70	45	55	15H		400	1W	300	100							20	0.2	20				25
P207	GAP	45	20	40	25A		16M	4W	70	85							15	0.2					24
P207A	GAP	45	20	40	25A		16M	4W	70	85							15						24
P208	GAP	65	30	60	25A		25M	4W	70	85							15						24
P208A	GAP	65	30	60	25A		25M	4W		85							15						24

GROUP Ⅰ, TRANSISTORS

TYPE NUMBER	KIND	MAXIMUM									TYPICAL			MAXIMUM			MINIMUM		TYP	MIN	MAXIMUM		FIG
		V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} μA	P_C mW	K_θ mW/°C	T_A °C	COMMON	V_C V	I mA	h_{11} Ω	h_{12} 10^{-5}	h_{22} μmho	h_{21}	f_α @ $f_{T\,MAX}$ MHz	NF dB	K_M dB	C_{ob} pF	$r_b'C_c$	
P209	GAP	65		45	12A		8M	1500	43	85							15	0.1					4
P209A	GAP	65		45	12A		8M	1500	43	85							15	0.1					4
P210	GAP	45		65	12A		12M	1500	43	85							15	0.1					4
P210A	GAP	45		65	12A		12M	1500	43	85							15	0.1					4
P210B	GAP	65	25	40	12A		15M	45W		70							10						4
P210V	GAP	45	25	40	12A		15M	45W		70							10						4
P211	GAP	50			500		50	750		85							50	1.0					26
P212	GAP	70			500		50	750		85							20	1.0					26
P212A	GAP	70			500		50	750		85							50	1.0					26
P213	P	45		30	5A	1H	80	115H	314		C	10	100				20	0.2					25
P213A	GAP	45	10	30	5A		1500	10W	30	85	C	5	200				20	/0.2					25
P213B	GAP	45	10	30	5A		1500	10W	30	85	C	5	200				40	/0.2					25
P214	P	60		45	5A	1H	300	10W	200		C	10	100				20	0.2					25
P214A	P	60		45	5A	1H	30M	10W	200	85	C	10	100				50	0.2					25
P214B	P	60		45	5A	1H	30M	115H	314	85	C	10	100				20	0.2					25
P214G	GAP	60	10	55	5A		15H	10W	30	85	C	5	200				20	/0.2					25
P214V	GAP	60	10	55	5A		15H	10W	30	85	C	5	200				20	/0.2					25
P215	P	80		60	5A	1H	300	10W	200		C	10	100				20	0.2					25
P216	GAN	40		30	75H	1H	40M	30W	500		C	10	100				18	10.2					25
P216A	GAN	40		30	75H	1H	40M	30W	500		C	10	100				20	0.1					25
P216B	GAN	35	10	35	75H		40M	24W	30	85	C	3	2A				10	0.1					25
P216D	GAN	50	10	50	75H		40M	24W	30	85	C	3	2A				15	0.1					25
P216G	GAN	50	10	50	75H		40M	24W	30	85	C	3	2A				5	0.1					25
P216V	GAN	35	10	35	75H		40M	24W	30	85	C	3	2A				30	0.1					25
P217	GAN	60		45	75H	1H	50M	30W	500	85	C	10	100				15	0.1					25
P217A	GAN	60		45	75H	1H	50M	30W	500	85	C	10	100				20	0.1					25
P217B	GAN	60		45	75H	1H	50M	30W	500	85	C	10	100				20	0.1					25
P217G	GAN	60	10	60	75H		50M	24W	30	85	C	3	2A				20	0.1					25
P217V	GAN	60	10	60	75H		50M	24W	30	85	C	3	2A				15	0.1					25
KT301	SDN	20	3	20	10	10	40	150	1	120						3	20	30			10		9
KT301A	SDN	20	3	20	10	10	40	150	1	120						3	40	30			10		9
KT301B	SDN	30	3	30	10	10	40	150	1	120						3	10	30			10		9
KT301D	SDN	20	3	20	10	10	40	150	1	120						3	20	60			10		9
KT301G	SDN	20	3	20	10	10	40	150	1	120						3	10	60			10		9
KT301V	SDN	30	3	30	10	10	40	150	1	120						3	20	30			10		9

GROUP X, TRANSISTORS

TYPE NUMBER	KIND	MAXIMUM									TYPICAL			MAXIMUM			MINIMUM		TYP	MIN	MAXIMUM		FIG
		V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} μA	P_C mW	K_θ mW/°C	T_A °C	COMMON	V_C V	I mA	h_{11} Ω	h_{12} 10^{-5}	h_{22} μmho	h_{21}	f_α *f_{TMAX} MHz	NF dB	K_M dB	C_{ob} pF	r_b r'_{bC}	
KT301YE	SDN	20	3	20	10	10	40	150	1	120						3	40	60			10		9
KT301ZH	SDN	20	3	20	10	10	40	150	1	120						3	80	60			10		9
P302	SAP	35		35	500	5H	100	2000	100	130	F	10	120				10	0.2					20
P303	SAP	60		60	500	5H	100	2000	100	130	F	10	300				6	0.1				*20	20
P303A	SAP	60		60	500	5H	100	2000	100	130	F	10	120				6	0.1				*20	20
P304	SAP	80		80	500	5H	100	2000	100	130	F	10	120				5	/0.1					20
KT306A	SPN	15	4	10	30	30	/1	150									20	100			5	*5H	34
KT306B	SPN	15	4	10	30	30	/1	150									40	100			5	*5H	34
KT306G	SPN	15	4	10	30	30	/1	150									40	100			5	*5H	34
KT306V	SPN	15	4	10	30	30	/1	150									20	100			5	*5H	34
P306	SAN	60		60	400	1H	100	2000		130	C	10	100				7	/0.1					20
P306A	SAN	80		80	400	50	100	2000		130	C	20	50				5	/0.1					20
KT307A	SPN	10	4	10	20		/1	15	/1								20	100			6		35
KT307B	SPN	10	4	10	20		/1	15	/1								40	100			6		35
KT307G	SPN	10	4	10	20		/1	15	/1								80	100			6		35
KT307V	SPN	10	4	10	20		/1	15	/1								40	100			6		35
P307	SDN	80	3	80	30		20	250									16	20					38
P307A	SDN	80	3	80	30		20	250									30	20					38
P307B	SDN	80	3	80	15		20	250									50	20					38
P307G	SDN	80	3	80	15		20	250									16	20					38
P307V	SDN	60	3	60	30		20	250									50	20					38
GT308A	GAP	20	3	12	50		2	150	4	85							20	9.0	8		8	*4H	12
GT308B	GAP	20	3	12	50		2	150	4	85							50	12.0	8		8	*5H	12
GT308V	GAP	20	3	12	50		2	150	4	85							80	12.0	8		8	*5H	12
P308	SDN	120	3	120	15		20	250									30	20					38
GT309A	GDP	15	6	10	10		5	50	1	70	F	5	1	38		5.0	20	12.0			10	*5H	9
GT309B	GDP	15	6	10	10		5	50	1	70	F	5	1	38		5.0	60	12.0			10	*5H	9
GT309D	GDP	15	6	10	10		5	50	1	70	F	5	1	38		5.0	20	8.0			10	*1K	9
GT309G	GDP	15	6	10	10		5	50	1	70	F	5	1	38		5.0	60	8.0			10	*1K	9
GT309V	GDP	15	6	10	10		5	50	1	70	F	5	1	38		5.0	20	4.0			10	*1K	9
GT309YE	GDP	15	6	10	10		5	50	1	70	F	5	1	38		5.0	60	4.0			10	*1K	9
P309	SDN	120	3	120	30		20	250									16						38
GT310A	GDP	12		10	10		5	20	/1	55	F	5	1	38		3.0	20	160		3	4	*3H	29
GT310B	GDP	12		10	10		5	20	/1	55	F	5	1	38		3.0	60	160		3	4	*3H	29
GT310D	GDP	12		10	10		5	20	/1	55	F	5	1	38		3.0	20	80		4	5	*3H	29

GROUP X, TRANSISTORS

TYPE NUMBER	KIND	MAXIMUM									TYPICAL			MAXIMUM			MINIMUM		TYP	MIN	MAXIMUM		FIG
		V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} μA	P_C mW	K_θ mW/°C	T_A °C	COMMON	V_C V	I mA	h_{11} Ω	h_{12} 10^{-5}	h_{22} μmho	h_{21}	f_α or $f_{T\,MAX}$ MHz	NF dB	K_M dB	C_{ob} pF	$r_b{}'C_c$	
GT310G	GDP	12		10	10		5	20	/1	55	E	5	1	38		3.0	60	120	4		5	*3H	29
GT310V	GDP	12		10	10		5	20	/1	55	E	5	1	38		3.0	20	120	4		5	*5H	29
GT310YE	GDP	12		10	10		5	20	/1	55	E	5	1	38		3.0	60	80	4		5	*5H	29
GT311A	N	12	2	12			5	150			E	3	15				15				2	50	12
GT311B		12	2	12			5	150			E	3	15				30				2	100	12
GT311D		12	2	12			5	150			E	3	15				60				2	75	12
GT311G		12	2	12			5	150			E	3	15				30				2	75	12
GT311I	GDP	10	2	10	50		10	150	3	70							1H	45.0			/3	*1H	12
GT311V		12	2	12			5	150			E	3	15				15				2	75	12
GT311YE	GDP	12	2	12	50		10	150	3	70							50	25.0			/3	*75	12
GT311ZH	G P	12	2	12	50		10	150	3	70							15	30.0			/3	*1H	12
KI-312A	SPN	15	4	15	30		10	225	/3	85							10	8.0			5	*5H	9
KI-312B	SPN	30	4	30	30		10	225	/3	85							25	12.0			5	*5H	9
KT312G	SPN	15		15	30			225		150								*H1.4					
KI-312V	SPN	15	4	15	30		10	225	/3	85							50	12.0			5	*5H	9
GT313A	GAP	15		12	10		3	100		85				30			20	300			/3	*75	12
GT313B	GAP	15		12	10		3	100		85				30			20	450		7	2	*40	12
P314A	GAP	10		1			10	100		85							0.94	30			15		
P314B	GAP	10		1			5	100		85							0.94	60			10		
P314C	GAP	10		1			5	100		85							0.94	120			6		
KT315A	SEN			25	100		1	150	1	120							20	250			7	*3H	30
KT315B	SEN			20	100		1	150	1	120							70	250			7	*5H	30
KT315G	SEN			35	100		1	150	1	120							70	250			7	*5H	30
KT315V	SEN			40	100		1	150	1	120							20	250			7	*5H	30
KT316A	SEN	10	4	10	30	30	/1	150									20	100			3	*2H	34
KT316B	SEN	10	4	10	30	30	/1	150									40	100			3	*2H	34
KT316D	SEN	10	4	10	30	30	/1	150									60	100			3	*2H	34
KT316G	SEN	10	4	10	30	30	/1	150									20	100			3	*2H	34
KT316V	SEN	10	4	10	30	30	/1	150									40	100			3	*2H	34
KT319A	SPN	5	/4	5	15		1	100		80							15	100			11		35
KT319B	SPN	5	/4	5	15		1	100		80							25	100			11		35
KT319V	SPN	5	/4	5	15		1	100		80							40				11		35
GT320A	GAP	20	3	15	150		10	200	4	70							20	130			8	*5H	16
GT320B	GAP	20	3	15	150		10	200	4	70							50	200			8	*5H	16
GT320V	GAP	20	3	15	150		10	200	4	70							80	260			8	*6H	16

GROUP X, TRANSISTORS

TYPE NUMBER		KIND	MAXIMUM									TYPICAL			MAXIMUM			MINIMUM		TYP	MIN	MAXIMUM		FIG
			V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} μA	P_C mW	K_θ mW/°C	T_A °C	COMMON	V_C V	I mA	h_{11} Ω	h_{12} 10^{-5}	h_{22} μmho	h_{21}	f_α @ f_T MAX MHz	NF dB	K_M dB	C_{ob} pF	$r_b'C_c$	
GT321A		G P	60	4	40	200		500	160		80							20	60			80	*6H	13
GT321B		G P	60	4	40	200		500	160		80							40	60			80	*6H	13
GT321D		G P	45	2	30	200		500	160		80							40	60			80	*6H	13
GT321G		G P	45	2	30	200		500	160		80							20	60			80	*6H	13
GT321V		G P	60	4	40	200		500	160		80							80	60			80	*6H	13
GT321YE		G P	45	2	30	200		500	160		80							80	60			80	*6H	13
GT322A		GAP	15		15	5		4	50		62	E	5	1	34		1	20	80	7		/2	*2H	31
GT322B		GAP	15		15	5		4	50		59	E	5	1	34		1	50	80	4		/2	*2H	31
GT322D		GAP	15		15	5		4	50		62	E	5	1	34		1	20	50	4		/2	*2H	31
GT322G		GAP	15		15	5		4	50		59	E	5	1	34		1	50	50	4		/3	*2H	31
GT322V		GAP	15		15	5		4	50		62	E	5	1	34		1	20	50	4		/3	*2H	31
GT322YE		GAP	15		15	5		4	50		59	E	5	1	34		1	50	50	4		/2	*2H	31
P322	*	GDP	8			15		2	50		85						5.0	0.97	400			4		
KT325A		SEN	15	4	10	30	30	/1	225		120							20	100			/3	*1H	36
KT325B		SEN	15	4	10	30	30	/1	225		120							20	100			/3		36
KT325G		SEN	15	4	10	30	30	/1	225		120							50	100			/3		36
KT325D		SEN	15	4	10	30	30	/1	225		120							60	100			/3		36
KT325V		SEN	15	4	10	30	30	/1	225		120							50	100			/3		36
KT326A		SPN	20	4	15	50		/1	250									20	400			5	*5H	31
KT326B		SPN	20	4	15	50		/1	250									45	400			5	*5H	31
GT328		GEP	15			10		10	45									10	*2K			/2	*10	13
GT329A		GPN	10	/1		15		5	20									15		4		2	*15	37
GT329B		GPN	10	/1		15		5	20									15		5		3	*20	37
GT329V		GPN	10	/1		15		5	20									15		5		/4	*30	37
GT330A		GPN	10	/1		20		5	50									15		5		2	*30	37
GT330B		GPN	10	/1		20		5	50									15		5		2	*50	37
P401		GDP	20	20	10	20	10	10	100	2	85	F	5	5			5.0	16	30			15	*4K	10
GT402A		GAP			25	500		25	600	10	85							30	/0.1					32
GT402B		GAP			25	500		25	600	10	85							60	/0.1					32
P402		GDP	20	20	10	20	10	5	100	2	85	F	5	5			5.0	16	60			10	*1K	10
GT403A		GAP	45	20	30	12H		50		10								20						28
GT403B		GAP	45	20	30	12H		50		10								50						28
GT403G		GAP	60	20	45	12H		50		10								50						28
GT403D		GAP	60	30	45	12H		50		10								50						28
GT4031		GAP	80	20	60	12H		70		10								50						28

GROUP X, TRANSISTORS

TYPE NUMBER	KIND	MAXIMUM									TYPICAL			MAXIMUM			MINIMUM		TYP	MIN	MAXIMUM		FIG
		V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} μA	P_C mW	K_θ mW/°C	T_A °C	COMMON	V_C V	I mA	h_{11} Ω	h_{12} 10^{-5}	h_{22} μmho	h_{21}	f_α *$f_{T\alpha MAX}$ MHz	NF dB	K_M dB	C_{ob} pF	$r_b'C_c$ r_b C_c	
GT403V	GAP	60	20	45	12H		50		10								60						28
GT403YE	GAP	60	20	45	12H		50		10								30						28
GT403ZH	GAP	80	20	60	12H		70		10								20						28
P403	GDP	10	2	10	10	10	5	100	2	85	E	5	5			5.0	30	*H1.2			10	*5H	10
P403A	GDP	10		10	10	10	5	100	2	85	E	5	5			5.0	16	*H1.2			10	*5H	10
P404	GSP	5	5	/5	5		5	10	/1	85	E	3	/1			7.0	15	10			25		5
P404A	GSP	5	5	/5	5		2	10	/1	85	E	3	/1			7.0	15	10			25		5
P405	GSP	5	5	/5	5		5	10	/1	85	E	3	/1			7.0	20	30			15		5
P405A	GSP	5	5	/5	5		2	10	/1	85	E	3	/1			7.0	20	30			1	5	5
P406	GAP	6	6	6	5	5	6	30	2	85		6	1			2.0	20	10			20	150	17
P407	GAP	6	6	6	5	5	6	30	2	85		6	1			2.0	20	20			20	150	17
P408	G P	20	20	6	5	5	6	30	1	90	E	5	1	33		2.0	20	10	5		20	150	3
P409	G P	20	20	6	5	5	6	30	1	90	E	5	1	33		2.0	20	20	5		20	150	3
P410	GDP	6	8	6	20	20	2	100	2	85	E	5	5	10	120	10.0	20	*H2.0	5		4	*3H	6
P410A	GDP	6	8	6	20	20	2	100	2	85	E	5	5	10	120	10.0	25	*H2.0	5		4	*3H	6
P411	GDP	6	8	6	20	20	2	100	2	85	E	5	5	10	120	10.0	20	*H4.0			4	*2H	6
P411A	GDP	6	8	6	20	20	2	100	2	85	E	5	5	10	120	10.0	20	*H4.0			4	*2H	6
P414	GDP	10	1	10	10		5	100	2	75						5.0	25	60			10	*1K	16
P414A	GDP	10	1	10	10		5	100	2	75						5.0	60	60			10	*1K	16
P414B	GDP	10	1	10	10		5	100	2	75						5.0	1H	60			10	*1K	16
P415	GDP	10	1	10	10		5	100	2	75						5.0	25	H1.2			10	*5H	16
P415A	GDP	10	1	10	10		5	100	2	75						5.0	60	H1.2			10	*5H	16
P415B	GDP	10	1	10	10		5	100	2	75						5.0	1H	H1.2			10	*5H	16
P416	GDP		3	12	15	50	3	100	2	70	C	5	5			5.0	25	40			8	*5H	16
P416A	GDP		3	12	15		3	100	2	70	C	5	5			5.0	60	60			8	*5H	16
P416B	GDP		3	12	15		3	100	2	70	C	5	5			5.0	1H	80			8	*5H	16
P416V	P			15			2	100	2		C						H1.2						
P417	P			10	10	5	3	50	2		C	5	5				24	200			5	*4H	19
P417A	P			10	10	5	3	50	2		C	5	5				65	200			5	*4H	19
P418	P			10		5	3	50	2		C	5	5				24	400					
P418A	P			10		5	3	50	2		C	5	5				65	400					
P418B	P			10		10	3	50	2		C	6	10				24	700					
P418G	GDP	10		8			3	50		85							8	400			200		6
P418M	GDP	10		8			3	50		85							8	400			200		6
P418V	P			10		10	3	50	2		C	6	10				65	700					

GROUP X, TRANSISTORS

TYPE NUMBER	KIND	MAXIMUM									TYPICAL			MAXIMUM			MINIMUM		TYP	MIN	MAXIMUM		FIG
		V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} μA	P_C mW	K_θ mW/°C	T_A °C	COMMON	V_C V	I mA	h_{11} Ω	h_{12} 10^{-5}	h_{22} μmho	h_{21}	f_α $f_{\tau MAX}$ MHz	NF dB	K_M dB	C_{ob} pF	r_b r'_{bC_c}	
P420	GDP	40		12	25		10	100								6.0	12	*30			20	*5K	10
P421	GDP	40		12	25		10	100								5.0	15	*30			15	*3K	10
P422	GDP	40		12	25		5	100								5.0	30	*60			10	*1K	16
P422A	GDP	40		12	25		5	100								5.0	15	*60			10	*1K	16
P423	GDP	40		12	25		5	100		70						5.0	30	H1.2	10		10	*5H	16
P423A	GDP	40		12	25		5	100								5.0	15	*H1.2				*5H	16
P501	SDN	20	1	20	10	3	50	150	1	150	E	10	3			3.0	10	10			10		19
P501A	SDN	20	1	20	10	3	50	150	1	150	E	10	3			3.0	15	10			10		19
P502	SDN	20	1	20	10	3	50	150	1	150	E	10	3			3.0	20	30			10		19
P502A	SDN	20	1	20	10	3	50	150	1	150	E	10	3			3.0	20	30			10		19
P502B	SDN	20	1	20	10	3	50	150	1	150	E	10	3			3.0	20	30			10		19
P502V	SDN	20	1	20	10	3	50	150	1	150	E	10	3			3.0	20	30			10		19
P503	SDN	20	1	20	10	3	50	150	1	150	E	10	3			3.0	30	60			10		19
P503A	SDN	20	1	20	10	3	50	150	1	150	E	10	3			3.0	30	60			10		19
P504	SDN	30	2	30	10		2	150	2	120	E	10	5			2.0	10				7		14
P504A	SDN	30	2	30	10		2	150	2	120	E	10	5			2.0	25				7		14
P505	SDN	20	2	20	10		2	150	2	120	E	10	5			2.0	40				7	*1K	14
P505A	SDN	20	2	20	10		2	150	2	120	E	10	5			2.0	20				7	*1K	14
KT601	SDN	100	2	100	30			500		150							16				15	*6H	11
KT601A	SPN	100	2		30			500		150							16	*40			15	*6H	11
P601	GDP	25	/1	25	1A		200	1W	500		C	10	500				20	20		10	200	*5H	20
P601I	GDP	25		20	15H		200	1W	20	85							20	*13			150	*7H	25
P601A	GDP	30	/1	30	1A		100	1W	500		C	10	500				40	20		10	200	*5H	20
P601AI	GDP	30		25	15H		100	3W	20	85							40	2.0			150	*7H	20
P601B	GDP	30	/1	25	1A		130	1W	500	85	C	10	500				80	20		10	200	*5H	20
P601BI	GDP	30		25	15H		130	1W	20	85							80	*13			250	*7H	25
KT602A	SDN	120	5	100	75	80	70	2800	200	120							20	150			4	*3H	32
KT602B	SDN	120	5	100	75	80	70	2800	200	120							50	150			4	*3H	32
KT602G	SDN	80	5	100	75	80	70	2800	200	120							50	150			4	*3H	32
KT602V	SDN	80	5	100	75	80	70	2800	200	120							15	150			4	*3H	32
P602	GDP	30	/1	30	1A		100	1W	500	85	C	10	500				40	20		10	200	*5H	20
P602A	GDP	25	/1	25	1A		130	1W	500	85	C	10	500				80	20		10	200	*5H	20
P602AI	GDP	25		20	15H		130	1W	20	85							80	6			150	*7H	25
P602I	GDP	30		25	15H		100	1W	20	85							40	6			150	*7H	25
KT604A	SPN	300	5	250	200			3000	25	100							10	*80					13

GROUP X, TRANSISTORS

TYPE NUMBER	KIND	MAXIMUM								TYPICAL			MAXIMUM			MINIMUM		TYP	MIN	MAXIMUM		FIG
		V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} μA	P_C mW	K_θ mW/°C	T_A °C	COMMON	V_C V	I mA	h_{11} Ω	h_{12} 10^{-5}	h_{22} μmho	h_{21}	f_α $*f_{T\,MAX}$ MHz	NF dB	K_M dB	C_{ob} pF	r_b $*r'_b C_c$	
KT604B	SPN	300	5	250	200			3000	25	100							30	*80					13
P604	GAP	45	15	45	200			400		70							10						15
P604A	GAP	45	15	45	200			400		70							20						15
P604B	GAP	45	15	45	200			400		70							40						15
KT605A	SEN	300	8	250	200		50	400	3	150	E	40	20				10				7		13
KT605B	SEN	300	8	250	00		50	400	3	150	E	40	20				30				7		13
P605	GDP	45	1	35	500		2M	500	20	85	C		500			20	20	10			130	*5H	26
P605A	GDP	45	1	35	500		2M	500	20	85	C		500			40	50	10			130	*5H	26
P606	GDP	35	1	20	500		2M	500	20	85	C		500			20	20	10			130	*5H	26
P606A	GDP	35	1	20	500		2M	500	30	85	C					40	50	10			130	*5H	26
P607	GDP	30	/2	25	200		100	1500		85	E	10	100				20	40			40	*2H	18
P607A	GDP	30	/2	25	200		100	1500		85	E	10	100				60	40			40	*2H	18
P608	GDP	30	/2	25	200		100	1500		85	E	10	100				40	70			30	*2H	18
P608A	GDP	30	/2	25	200		100	1500		85	E	10	100				80	70			30	*2H	18
P608B	GDP	50	15		200		100	1500		85	E	10	100				80	70			30	*2H	26
P609	GDP	30	/2	25	200		100	1500		85	E	10	100				40	100			30	*2H	18
P609A	GDP	30	/2	25	200		100	1500		85	E	10	100				80	100			30	*2H	18
P609B	GDP	50	15	40	200		100	1500		85	E	10	100				80	100			30	*2H	26
GT701A	GDP		15	55	12A		5000	50W	400	85	C	20	100				10	/0.1					23
P701	SDN	40		40	500	7H	100	1000	400	150							10	12.5					20
P701A	SDN	60		60	500	7H	100	1000	400	150							10	12.5					20
P701B	SDN	35	/3	35	500	7H	100	1000		150							30						20
P702	SDN	70		60	2A		5000	4000	35	150	C	10	1A				25	4.0					20
P702A	SDN	70	3	60	2A		2500	4000	35	150	C	10	1A				10	4.0					20
KT801A	SDN		/3	80	2A			5W		150							13	*10					16
KT801B	SDN		/3	80	2A			5W	50	150							20	*10					16
KT802A	SPN	150	3	130	5A		60M	50W	400	150	C	10	2A				15	*10					21
KT803A	SPN		4	60	10A		5M	60W		100							10	*20					21
GT804A	GDN			45	10A		10M	15W		65							20	10					18
GT804B	GDN			55	10A		10M	15W		65							20	10					18
GT804V	GDN			75	10A		10M	15W		65							20	10					18
KT805A	SDN		5	160	5A		100M	30W	300	150	C	10	2A				15	20					21
KT805B	SDN		5	135	5A		100M	30W	300	150	C	10	2A				15	20					21
KT902A	SDN	65	5	110	5A		10M	30W		120							15	*35					21
KT903A	SPN	60	4	60	3A		10M	30W	300	85							15				180		21

GROUP X, TRANSISTORS

TYPE NUMBER		KIND	MAXIMUM								TYPICAL			MAXIMUM			MINIMUM		TYP	MIN	MAXIMUM		FIG
			V_{CBO} V	V_{EBO} V	V_{CEO} V	I_C mA	I_E mA	I_{CBO} μA	P_C mW	K_θ mW/°C	T_A °C	COMMON	V_C V	I mA	h_{11} Ω	h_{12} 10^{-5}	h_{22} μmho	h_{21}	f_α @ $f_{T\,MAX}$ MHz	NF dB	K_M dB	C_{ob} pF	r_b @ $r'_b C_c$	
KT903B		SPN	60	4	60	3A		10M	30W	300	85							40				180		21
	S1A	* GPP	40			10	10		100			E	20	/1				1.0	0.5	19				7
	S1B	* GPP	40			6	10		50			E	20	/1				1.2	0.5	22				7
	S1D	* GPP	40			6	10		50			E	20	/1				1.2	5.0	22				7
	S1G	* GPP	40			6	10		50			F	20	/1				1.2	1.5	22				7
	S1V	* GPP	40			10	10		100			F	20	/1				1.2	1.5	19				7
	S1YE	* GPP	40			6	10		50			F	20	/1				1.2		15				7
	S2A	* GPP	30			10	10		100			E	10	/1				1.2	0.5					7
	S2B	* GPP	20			6	10		50			F	10	/1				1.5	1.5					7
	S2G	* GPP	20			6	10		50			F	10	/1				1.5						7
	S2V	* GPP	20			6	10		50			E	10	/1				1.5	5.0					7
	S3A	* GPP	40			10	10		100			F	20	/1				1.0	0.5	19				8
	S3B	* GPP	40			6	10		50			F	20	/1				1.2	0.5	22				8
	S3D	* GPP	40			6	10		50			F	20	/1				1.2	5.0	22				8
	S3G	* GPP	40			6	10		50			F	20	/1				1.2	1.5	22				8
	S3V	* GPP	40			10	10		100			F	20	/1				1.2	1.5	19				8
	S3YE	* GPP	40			6	10		50			F	20	/1				1.2	10.0	15				8
	S4A	* GPP	30			6	10		100			E	10	/1				1.2	0.5					8
	S4B	* GPP	20			6	10		50			E	10	/1				1.5	1.5					8
	S4G	* GPP	20			6	10		50			F	10	/1				1.5	10.0					8
	S4V	* GPP	20			6	10		50			E	10	/1				1.5	5.0					8

GROUP I-A INTEGRATED CIRCUITS

TYPE NUMBER	SERIES	KIND	NUMBER DIODES	NUMBER RESISTORS	LOGIC	VOLTAGE SUPPLY V	VOLTAGE IN V	VOLTAGE OUT V	CURRENT IN mA	CURRENT OUT mA	MAX P mW	FREQUENCY MIN.	FREQUENCY MAX.	INPUT RES. OHMS NO.	INPUT RES. OHMS EXP.	MAX GAIN dB	FAN IN	FAN OUT	MAX. TIME ns	DWG. NO.
	144					5.0	0.3	2.5											45	64
1DA191	119			2		6.3	3.0		1			5	40K							51
1GF191	119			3		6.3	3.5	4.0	3					1	3					51
1GF192	119	MVB	4	2		3.0		1.1	8					39	2				30U	51
1GF193	119	MVB	2	2		3.0	5.0	1.2	4					1	3				2U	51
1IE201	120			30		12.6	4.0				15							10		51
1IL131A	113			8		4.0	0.2	0.78		1H	2							4	400	51
1IL131B	113			8		4.0	0.2	0.78		2H	2							4	400	51
1IL131V	113			8		4.0	0.2	0.78		3H	2							4	400	51
1IL141A	114			10		4.0	0.15	0.95		32	2							4	500	58
1IL141B	114			10		4.0	0.15	0.95		46	2							4	500	58
1IR141A	114			16		4.0	0.15	0.78		1H	2							4	500	58
1IR141B	114			16		4.0	0.15	0.78		2H	2							4	500	58
1IR201	120	MOS		31		12.6	4.0				15							10		51
1IR202	120	MOS		19		12.6	4.0				12							10		51
1IR451	145	MOS		12		12.6					40			10	9					51
1JAM351	135	MOS		8		27.0					2									51
1KP191	119			1	RTL	3.0			/4	70										51
1KT011A	101			2	RTL	3.5		6.5	10					1	2					54
1KT011B	101			2	RTL	3.5		6.5	10					1	2					54
1KT011G	101			2	RTL	3.5		3.5	10					1	2					54
1KT011V	101			2	RTL	3.5		3.5	10					1	2					54
1KT491	149			4	RTL	5.0			2H		100		3HK						50	51
1LB041	104	NND	3	1	DTL	6.3					18							5	50	51
1LB042	104	NND	4	1	DTL	6.3	0.5	2.6			18						3	5	50	51
1LB043	104	NND	5	1	DTL	6.3	0.5	2.6			18						3	5	50	51
1LB044	104	NND	6	1	DTL	6.3	0.5	2.6			18						3	5	50	51
1LB061	106	NDR		10	TTL	5.0	0.3	2.3			18						3	10	40	51
1LB0610	106	NDR		6	TTL	5.0	0.25	2.3			7						4	10	110	51
1LB062	106	NDR		10	TTL	5.0	0.25	2.3			7						3	10	100	51
1LB063	106	NDR		10	TTL	5.0	0.3	2.3			18						2	10	40	51
1LB064	106	NDR		10	TTL	5.0	0.25	2.3			7						2	10	100	51
1LB065	106	NDR		6	TTL	5.0	0.3	2.3			18						8	10	45	51
1LB066	106	NDR		6	TTL	5.0	0.25	2.3			7						8	10	110	51
1LB067	106	NDR		6	TTL	5.0	0.3	2.3			18						6	10	45	51
1LB068	106	NDR		6	TTL	5.0	0.25	2.3			7						6	10	110	51
1LB069	106	NDR		6	TTL	5.0	0.3	2.3			18						4	10	45	51
1LB091A	109	NDR	5	2	DTL	5.0	0.35	2.5			12						6	12	35	51
1LB091B	109	NDR	5	2	DTL	5.0	0.35	2.5			12						6	10	35	51
1LB091G	109	NDR	5	2	DTL	5.0	0.35	2.5			12						6	5	35	51
1LB091V	109	NDR	5	2	DTL	5.0	0.35	2.5			12						6	8	35	51
1LB092A	109	NDR	4	4	DTL	5.0	0.4	2.5			19						6	20	50	51
1LB092B	109	NDR	4	4	DTL	5.0	0.4	2.5			19						6	16	50	51
1LB111	111	NOR		2	RTL	4.0	0.2	0.95		1H	/1							4	400	62
1LB112	111	NOR		2	RTL	4.0	0.2	0.95		2H	/1							4	400	62
1LB113	111	NOR		2	RTL	4.0	0.2	0.95		3H	/1							4	100	62
1LB131A	113	NOR		8	RTL	4.0	0.2	0.95		1H	2							4	400	51
1LB131B	113	NOR		8	RTL	4.0	0.2	0.95		2H	2							4	400	51
1LB131V	113	NOR		8	RTL	4.0	0.2	0.95		3H	2							4	400	51
1LB132A	113	NOR		8	RTL	4.0	0.2	0.95		1H	2							4	400	51
1LB132B	113	NOR		8	RTL	4.0	0.2	0.95		2H	2							4	400	51
1LB132V	113	NOR		8	RTL	4.0	0.2	0.95		3H	2							4	400	51
1LB133A	113	NOR		8	TTL	4.0	0.5			1H	2							50	400	51

GROUP I-A INTEGRATED CIRCUITS

TYPE NUMBER	SERIES	KIND	NUMBER		LOGIC	VOLTAGE			CURRENT		MAX P	FREQUENCY		INPUT RES. OHMS		MAX	FAN		MAX.	DWG.
			DIODES	XISTORS		SUPPLY V	IN V	OUT V	IN mA	OUT mA	mW	MIN.	MAX.	NO.	EXP.	GAIN dB	IN	OUT	TIME ns	NO.
1LB133B	113	NOR		8	TTL	4.0	0.5			2H	2							50	400	51
1LB133V	113	NOR		8	TTL	4.0	0.5			3H	2							50	400	51
1LB134A	113	NOR		6	TTL	4.0	0.5			1H	2							50	400	51
1LB134B	113	NOR		6	TTL	4.0	0.5			2H	2							50	400	51
1LB134V	113	NOR		6	TTL	4.0	0.5			3H	2							50	400	51
1LB135A	113	NOR		8	RTL	4.0	0.2	0.95		1H	2							4	400	51
1LB135B	113	NOR		8	RTL	4.0	0.2	0.95		2H	2							4	400	51
1LB135V	113	NOR		8	RTL	4.0	0.2	0.95		3H	2							4	400	51
1LB141A	114	NOR		8	RTL														500	58
1LB141B	114	NOR		8	RTL														500	58
1LB142A	114	NOR		8	RTL	4.0	0.15	0.95			2							4	500	58
1LB142B	114	NOR		8	RTL	4.0	0.15	0.95			2							4	500	58
1LB143A	114	NOR		8	RTL	4.0	0.15	0.95			2							4	500	58
1LB143B	114	NOR		8	RTL	4.0	0.15	0.95			2							4	500	58
1LB144A	114	NOR		8	RTL	4.0	0.15	0.95			2							4	500	58
1LB144B	114	NOR		8	RTL	4.0	0.15	0.95			2							4	500	58
1LB145A	114	NOR		8	RTL	4.0	0.15	0.95			2							10	500	58
1LB145B	114	NOR		8	RTL	4.0	0.15	0.95			2							10	500	58
1LB146A	114	NOR		10	RTL	4.0	0.15	0.95			2							50	500	58
1LB146B	114	NOR		10	RTL	4.0	0.15	0.95			2							50	500	58
1LB211A	121	NDR	5	2	DTL	5.0	0.35	2.5			12						6	12	35	53
1LB211B	121	NDR	5	2	DTL	5.0	0.35	2.5			12						6	10	35	53
1LB211G	121	NDR	5	2	DTL	5.0	0.35	2.5			12						6	5	35	53
1LB211V	121	NDR	5	2	DTL	5.0	0.35	2.5			12						6	8	35	53
1LB212A	121	NDR	4	4	DTL	5.0	0.4	2.5			19						6	20	50	53
1LB212B	121	NDR	4	4	DTL	5.0	0.4	2.5			19						6	16	50	53
1LB251	125	MND	6	16	DTL	27.0		15			17			10	7		5	10	4K	51
1LB331A	133	NND	2	8	TTL	5.0	0.4	2.4			20						4	10	22	51
1LB331B	133	NND	2	8	TTL	5.0	0.4	2.4			20						4	10	35	51
1LB332A	133	NND	1	4	TTL	5.0	0.4	2.4			20						8	10	25	51
1LB332B	133	NND	1	4	TTL	5.0	0.4	2.4			20						8	10	35	51
1LB341	134	NOR			TTL	5.0					2							10	100	51
1LB342	134	NOR			TTL	5.0					2							10	100	51
1LB371	137			6	TTL	5.0					110						10	15	4	51
1LB372	137	ONR		6	TTL	5.0					110						10	15	4	51
1LB381	138	ONR		10	TTL	5.0					110							15	3	63
1LB391	139	ONR		6	TTL	5.0					40						9	15	10	51
1LB392	139	ONR		6	RTL	5.0					40						9	15	10	51
1LB471	147	MNR	6	16	DTL	12.6	2.0	13.9			25							10		51
1LB472	147	MNR	8	15	DTL	12.6	2.0	14			45			10	6			10	10	51
1LI041	104	AND	3			6.3				6										51
1LI042	104	AND	4			6.3				6										51
1LI043	104	AND	5			6.3				6										51
1LI044	104	AND	8			6.3				6										51
1LI045	104	AND	10			6.3				6										51
1LL201	120	MOR		14	TTL	12.6	4.0	13			8							10	800	51
1LP061	106	OR		3	TTL	5.0											8		6	51
1LP062	106	OR		3	TTL	5.0											8		10	51
1LP063	106	OR		3	TTL	5.0											6		6	51
1LP064	106	OR		3	TTL	5.0											6		10	51
1LP065	106	OR		4	TTL	5.0											4		6	51
1LP066	106	OR		4	TTL	5.0											4		10	51
1LP067	106	OR		4	TTL	5.0											3		6	51

GROUP I-A INTEGRATED CIRCUITS

TYPE NUMBER	SERIES	KIND	NUMBER		LOGIC	VOLTAGE			CURRENT		MAX P	FREQUENCY		INPUT RES. OHMS		MAX	FAN		MAX.	DWG.
			DIODES	XISTORS		SUPPLY V	IN V	OUT V	IN mA	OUT mA	mW	MIN.	MAX.	NO.	EXP.	GAIN dB	IN	OUT	TIME ns	NO.
1LP068	106	OR		4	TTL	5.0											3		10	51
1LP091	109		6			25				/2										51
1LP141	114	OR		8															500	58
1LP142	114	OR		8		4.0	0.15	0.95			2							4	500	58
1LP201	120	MOS		8							12									51
1LP211	121		6			25				/2									5	53
1LP251	125	MOS	8	8		27					17								60	51
1LP331	133	OR		4	TTL	5.0											4		5	51
1LP371	137			6													6			51
1LP391	139			6													6			51
1LP421	142	MOS		10							2							15		51
1LP471	147	MOS	8	18	TTL	12.6	2.0	14			25			10	6			10	10	51
1LR061	106	ADR		7	TTL	5.0	0.3	2.3			24						8	10	45	51
1LR062	106	ADR		7	TTL	5.0	0.25	2.3			10						8	10	110	51
1LR063	106	ADR		7	TTL	5.0	0.3	2.3			24						4	10	45	51
1LR064	106	ADR		7	TTL	5.0	0.25	2.3			10						4	10	110	51
1LR271	127	ADR	7	1	DTL	3.0					30		12M				4	6	30	51
1LR331A	133	ADR	2	12	DTL	5.0	0.4	2.4			20							10	28	51
1LR331B	133	ADR	2	12	DTL	5.0	0.4	2.4			20						4	10	40	51
1LR341	134	ADR			DTL	5.0					2							10	100	51
1LR342	134	ADR			DTL	5.0					2							10	100	51
1LR421	142	MOS		15	TTL	12.6	3.0	10			36						15	30	500	51
1LS271	127	ADR	7	2	DTL	3.0					30		12M				4	6	30	51
1MA191	119			4	TTL	6.3							2HK	27	2					51
1ND041	104		3			4.5	0.85													51
1ND042	104		4			4.5	0.85													51
1ND043	104		6			4.5	0.85													51
1ND044	104		8			4.5	0.85													51
1PP191	119			4	TTL	10.0			10	10		20	2M	15	2					51
1SV191	119	AMP	2	2		6.3			3											51
1TK191	119		3	2	DTL	6.3			8				1M						500	51
1TK251	125	MOS	6	18	TTL	27.0	2.0	15			17			1	7		5	10	40	51
1TK471	147	MOS	8	22	TTL	12.6	2.0	14			15				7					51
1TR061	106	ADR		10	TTL	5.0	0.3	2.3			36						3	10	40	51
1TR062	106	ADR		10	TTL	5.0	0.3	2.3			14						3	10	100	51
1TR063	106	ADR		10	TTL	5.0	0.3	2.3			36						2	10	40	51
1TR064	106	ADR		10	TTL	5.0	0.3	2.3			14						2	10	100	51
1TR131A	113	NOR		8	RTL	4.0	0.2	0.78		1H	2							4	400	51
1TR131B	113	NOR		8	RTL	4.0	0.2	0.78		2H	2							4	400	51
1TR131V	113	NOR		8	RTL	4.0	0.2	0.78		3H	2							4	400	51
1TR141A	114	NOR		8	RTL	4.0	0.15	0.78		1H	2							4	500	58
1TR141B	114	NOR		8	RTL	4.0	0.15	0.78		2H	2							4	500	58
1TR421	142	MOS		22	TTL	12.6	3.0	10			40								500	51
1TSH191	119	SCH		4		3.0			4					6	2					51
1UB191	119	AMP		2		6.3			7					1	3					51
1UI461	146	AMP		10		10.0					100									57
1UI462	146	AMP	2	4		20.0			3H										200	57
1US191	119	AMP		1		6.3			/2			5	40K	4	3	/3				51
1US192	119	AMP		2		6.3			3			5	2HK			8				51
1US221A	122	AMP		2		6.0						0	7HK			2H				52
1US221B	122	AMP		2		9.0						0	7HK			4H				52
1US221V	122	AMP		2		12.6						0	7HK			5H				52
1US222A	122	AMP		3		4.0						0	8M			40				52

GROUP I-A INTEGRATED CIRCUITS

TYPE NUMBER	SERIES	KIND	NUMBER		LOGIC	VOLTAGE			CURRENT		MAX P	FREQUENCY		INPUT RES. OHMS		MAX	FAN		MAX.	DWG.
			DIODES	XISTORS		SUPPLY V	IN V	OUT V	IN mA	OUT mA	mW	MIN.	MAX.	NO.	EXP.	GAIN dB	IN	OUT	TIME ns	NO.
1US222B	122	AMP		3		6.3						0	8M			50				52
1US222V	122	AMP		3		6.3						0	8M			80				52
1US481	148	AMP		5		3.0					50		50M							53
1UT191	119	AMP		2		6.3			2			5	2HK	35	2	3				51
1UT221A	122	AMP		4		4.0						0	2M			15				53
1UT221B	122	AMP		4		4.0						0	2M			22				53
1UT221G	122	AMP		4		6.3						0	2M			22				53
1UT221V	122	AMP		4		6.3						0	2M			15				53
1UT321	132	AMP		24		12.6					120	0	2M	15	4					53
1UT401	140	AMP	1	9		12.6					150	0	5M	10	3	1K				53
1UYE191	119	AMP		4		3.0			/2			20	5HK	40	3					51
1UYE201	120	MMP		26		12.6	4.0	13			70							10	800	51
2DA181	218	DET	1	1		6.3					14		10K						40	57
2DS191	219	LIM		4		5.0						500	1M							55
2FP201	220	FIL																		55
2GF181	218	MVB	6	2		6.3					83	50	1M							57
2GF182	218	MVB	6	2		6.3					76		2HK						300	57
2GF201	220	MVB		2		7.5			2											55
2GS191	219	OSC		1		5.0			2				70M							55
2GS192	219	OSC		1		5.0			2				15M							55
2GS193	219	OSC		1		5.0			2				15M							55
2ID231	223			25		4.0	1.45	0.85			171						4	10	15	64
2IE111	211			15		3.0	0.35	0.8			30							3	300	56
2IE112	211			15		3.0	0.35	0.8			30							5	300	56
2IE231	223			29		4 0	1.45	0.85			185							10	50	64
2IL071	207			16		3.0	0.35	0.65			18							3	200	60
2IL072	207			16		3.0	0.35	0.65			18							4	200	60
2IL073	207			16		3.0	0.35	0.65			18							5	200	60
2IL231	223			30		4.0	1.45	0.85			250							10	35	64
2IR111	211			12	TTL	3.0	0.35	0.8			35							4	400	56
2IR112	211			12	TTL	3.0	0.35	0.8			35							6	400	56
2KD281	228	SWI	14		RDL	6.3		1.25	/3										20	56
2KD282	228	SWI	14		RDL	6.3		1.25	/3										20	56
2KT281	228	SWI	8	2	DTL	6.3	0.5	2.5											20	57
2LB011	201	NND		4	RTL	4.0	1.3	0.3			15						6	2	100	58
2LB012	201	NOR		4	RTL	4.0	1.3	0.3			30						6	1	100	58
2LB013	201	NOR		4	RTL	4.0	1.3	0.3			30						6	1	100	58
2LB014	201	NND		6	RTL	4.0	1.3	0.3			25						6	2	100	58
2LB015	201	NND		5	RTL	4.0	1.3	0.3			20						6	2	100	58
2LB016	201	NOR		5	RTL	4.0	1.3	0.3			38						6	1	100	58
2LB017	201	NOR		5	RTL	4.0	1.3	0.3			38						6	1	100	58
2LB041	204	NDR	2	8	TTL	4.0	2.4	0.3			68						10	6	100	61
2LB042	204	NND	2	6	TTL	4.0	2.4	0.3			50						5	10	100	61
2LB051	205	NOR		8	RTL	4.0	0.3	1.4			50							2	250	61
2LB052	205	NOR		4	RTL	4.0	0.3	1.4			25							2	250	61
2LB053	205	NOR		4	RTL	4.0	0.3	1.4			25							3	250	61
2LB071	207	NOR		12	RTL	3.0	0.35	0.65			18						6	3	200	60
2LB072	207	NOR		12	RTL	3.0	0.35	0.65			18						6	4	200	60
2LB073	207	NOR		12	RTL	3.0	0.35	0.65			18						6	5	200	60
2LB074	207	NOR		16	RTL	3.0	0.35	0.65			19						6	3	200	60
2LB075	207	NOR		16	RTL	3.0	0.35	0.65			19						6	4	200	60
2LB076	207	NOR		16	RTL	3.0	0.35	0.65			19						6	5	200	60

GROUP I-A INTEGRATED CIRCUITS

TYPE NUMBER	SERIES	KIND	NUMBER		LOGIC	VOLTAGE			CURRENT		MAX P	FREQUENCY		INPUT RES. OHMS		MAX	FAN		MAX.	DWG.
			DIODES	XISTORS		SUPPLY V	IN V	OUT V	IN mA	OUT mA	mW	MIN.	MAX.	NO.	EXP.	GAIN dB	IN	OUT	TIME ns	NO.
2LB111	211	NND		16	RTL	3.0	0.35	0.8			19						10	3	400	56
2LB112	211	NND		16	RTL	3.0	0.35	0.8			19						10	4	400	56
2LB113	211	NND		16	RTL	3.0	0.35	0.8			19						10	6	400	56
2LB114	211	NND		10	RTL	3.0	0.35	0.8			25						10	3	400	56
2LB115	211	NND		10	RTL	3.0	0.35	0.8			25						10	4	400	56
2LB116	211	NND		10	RTL	3.0	0.35	0.8			25						10	6	400	56
2LB117	211	NND		9	RTL	3.0	0.35	0.8			40						10	3	400	56
2LB118	211	NND		9	RTL	3.0	0.35	0.8			40						10	4	400	56
2LB119	211	NND		9	RTL	3.0	0.35	0.8			40						10	6	400	56
2LB171	217	NND	10	1	DTL	6.0	0.3	2.6			12						8	4	25	59
2LB172	217	NND	10	2	DTL	6.0	0.3	2.6			24						3	4	25	59
2LB173	217	NND	8	3	DTL	6.0	0.3	2.6			18						8	8	25	59
2LB181	218		3	1	DTL	6.3	6.0	3.0			41	600	1M							57
2LB211	221		10	1		4.0			7		15									57
2LB231	223	ORD		21	TTL	4.0	1.45	0.85			128						3	10	15	64
2LB1110	211	NOR		8	RTL	3.0	0.35	0.8			35						10	3	250	56
2LB1111	211	NOR		8	RTL	3.0	0.35	0.8			35						10	4	250	56
2LB1112	211	NOR		8	RTL	3.0	0.35	0.8			35						10	6	250	56
2LI041	204			4	RTL			1.4			18						4	1	10	61
2LL231	223			20	TTL	4.0	1.45	0.85			112						4	10	15	64
2LN021	202	NND	2	5	DTL	4.0	0.3	1.4			35							3	70	58
2LN022	202	NND	2	5	DTL	4.0	0.3	1.4			35							5	70	58
2LN051	205	NND	4	4	DTL	4.0	0.4	1.4			8							4	250	61
2LN052	205	NND		8	RTL	4.0	0.3	1.4			25							2	250	61
2LN111	211	NND		5	RTL	3.0	0.35	0.8			35						10	3	500	56
2LN112	211	NND		5	RTL	3.0	0.35	0.8			35						10	4	500	56
2LN113	211	NND		5	RTL	3.0	0.35	0.8			35						10	6	500	56
2LN114	211	NND		5	RTL	3.0	0.35	0.8			40						10	3	250	61
2LN115	211	NND		5	RTL	3.0	0.35	0.8			40						10	4	250	61
2LN116	211	NND		5	RTL	3.0	0.35	0.8			40						10	6	250	61
2LN151	215	NND		5	RTL	4.0	0.33	1.5			35							5	30	58
2LN181	218	INV		3		6.3		4.0			/1							3		57
2LN182	218	INV	2	3		6.3		3.5			24							3		57
2LN183	218	INV	1	3		6.3		3.5			28							3		57
2LN211	221	NOR		6		4.0	0.3	2.5			50							4		57
2LP171	217	EXP	10	2	DTL	6.0					24									59
2LP172	217	EXP	9	1	DTL	6.0					9								4	59
2LP173	217	EXP	8							1										59
2LR171	217	ANR	8	4	DTL	6.0	0.3	2.6			30						8	10	100	59
2LR221	222	ANR	8	3	DTL	4.0	0.3	2.3			25						10	10	250	57
2LS011	201	ADR		6	RTL	4.0	1.3	0.3			30						6	8	100	58
2LS021	202	ADR	6	2	DTL	4.0	0.35	1.35			22						8	3	70	58
2LS022	202	ADR	6	2	DTL	4.0	0.35	1.35			22						8	5	70	58
2LS023	202	ADR	6	4	DTL	4.0	0.33	1.35			30						8	3	70	58
2LS024	202	ADR	6	4	DTL	4.0	0.33	1.35			30						8	5	70	58
2LS025	202	ADR	9			4.0				3	23									58
2LS026	202	ADR	8			4.0				3	16									58
2LS027	202	ADR	8	2	DTL	4.0	0.33	1.35			21						8	3	50	58
2LS028	202	ADR	8	2	DTL	4.0	0.33	1.35			21						8	5	50	58
2LS151	215	ADR	6	2	DTL	4.0	0.33	1.5			29						8	5	30	58
2LS152	215	ADR	6	1	DTL	4.0	0.33	1.5			30						10	5	25	58
2LS211	221		8			10.0				2										57
2MS191	219			2		5.0			/2			300	34M							55

GROUP X-A INTEGRATED CIRCUITS

TYPE NUMBER	SERIES	KIND	NUMBER		LOGIC	VOLTAGE			CURRENT		MAX P	FREQUENCY		INPUT RES. OHMS		MAX	FAN		MAX.	DWG.
			DIODES	XISTORS		SUPPLY V	IN V	OUT V	IN mA	OUT mA	mW	MIN.	MAX.	NO	EXP.	GAIN dB	IN	OUT	TIME ns	NO.
2MS192	219			3		5.0			/3			300	34H							55
2ND021	202		6			10.0				3										58
2ND022	202		9			10.0				3										58
2NE281	228					15.0														57
2NK041	204		4					1.4									4	1	10	61
2NK051	205		4					1.2	5											61
2NK281	228		4																	57
2NS191A	219			4		5.0			/3				14M							55
2NS191B	219			4		5.0			/3				14M							55
2NT011	201			4		5.0			15		15					25				58
2NT012	201			4		5.0					15					45				58
2NT013	201			4		5.0			15		15					35				58
2NT171	217			4		10.0			15							70				59
2NT172	217			4		10.0			15							150				59
2NT173	217			4		10.0			15							280				59
2NT191	217			5		5.0														55
2TK041	204		4	5		4.0	2.4	0.3			37								100	61
2TK171	217		16	2	DTL	6.0	0.3	2.6			60		5M					4		59
2TK181	218		3	6	DTL	6.3	0.25	4.0			24		1M						300	57
2TR071	207			16		3.0	0.35	0.65			10							3	200	60
2TR072	207			16		3.0	0.35	0.65			10							4	200	60
2TR073	207			16		3.0	0.35	0.65			10							5	200	60
2TR111	211	NOR		12	RTL	3.0	0.35	0.8			35							3	500	56
2TR112	211	NOR		12	RTL	3.0	0.35	0.8			35							4	500	56
2TR113	211	NOR		12	RTL	3.0	0.35	0.8			35							6	500	56
2TR114	211	NOR		8	RTL	3.0	0.35	0.8			20							2	400	56
2TR115	211	NOR		8	RTL	3.0	0.35	0.8			20							3	400	56
2TR116	211	NOR		8	RTL	3.0	0.35	0.8			20							5	400	56
2TR171	217		14	2	DTL	3.0	0.3	2.6			40		6M					3		59
2TR172	217		14	2	DTL	3.0	0.3	2.6			40		6M					5		59
2TR211	221	FLP	6	3		4.0		2.7			25								10	57
2TR231	223			25	TTL	4.0	1.45	0.85			128							10	35	64
2UI021	202	AMP	1	5	DTL	4.0	0.3	1.4			48							15	70	58
2UI071	207	AMP		12	TTL	3.0	0.35	0.65			14						1	20	200	60
2UI111	211	AMP		10	TTL	3.0	0.35	0.85			30								300	56
2UI151	215	AMP		5	RTL	4.0	0.33	1.5			48							5	25	58
2UI181	218	AMP		1	RTL	6.3					20	60	1HK	6	2	3				57
2UI182	218	AMP		2	TTL	6.3					40	250	4HK	6	2					57
2UI183	218	AMP		2		6.3					48			5	2	3				57
2US181	218	AMP		2		6.3					69	22M	37M			3				57
2US191A	219	AMP		2		5.0			/3			44M	50M			35				55
2US191B	219	AMP		2		5.0			/3			44M	50M			70				55
2US192	219	AMP		3		5.0			/2			5HK	1M			6H				55
2US193	219	AMP		2		5.0			/2			300	34H			2H				55
2US194	219	AMP		2		5.0			/2			300	34H							55
2US201	220	AMP		6		7.5			4			500	3K	7	3	1K				55
2US202	220		1	1		7.5			/2			40K	1HK							55
2US281	228	AMP		1		6.3					70			2	2					57
2US282	228	AMP		3		6.3			3					4	2					57
2US283	228	AMP		2		6.3					70			2	2					57
2US284	228	AMP		2		6.3					80			2	3					57
2US285	228	AMP	6	3		6.3			4		65									57
2UYE181	218	AMP		1		6.3					8	200	3HK	3	3					57

GROUP XI, DIODES—RECTIFIERS

TYPE NUMBER		TYPE	MAXIMUM			MAXIMUM @ 25 °C			MAXIMUM				Max	FIG
			I_F @25 mA	T_{Opr} °C	I_S @25°C A	PIV V	E_F @ * MIN E_F V	I_F mA	I_R @ µA	E_r @ V	T°C		MHz	
D1A		GEP	16	70		20	1.0	2	250	10	20		150	1
D1B		GEP	16	70		30	1.0	1	250	25	20		150	1
D1D		GEP	16	70		75	1.0	2	250	75	20		150	1
D1G		GEP	16	70		50	1.0	5	250	50	20		150	1
D1V		GEP	25	70		30	1.0	8	250	25	20		150	1
D1YE		GEP	12	70		100	1.0	1	250	100	20		150	1
D1ZH		GEP	12	70		100	1.0	5	250	100	20		150	1
D2A	*	GEP	50	70		7	1.0	50	250	7	20		150	6
D2B	*	GEP	16	70		10	1.0	10	250	10	20		150	6
D2D	*	GEP	16	70		50	1.0	10	250	50	20		150	6
D2G	*	GEP	16	70		50	1.0	5	250	50	20		150	6
D2I	*	GEP	16	70		150	*1.0	2	250	150	20		150	4
D2K	*	GEP	16	70		100	1.0	5	800	100	20			4
D2M	*	GEP	16	70		100	1.0	5	250	100	20			4
D2N	*	GEP	16	70		150	1.0	5	800	150	20			4
D2P	*	GEP	16	70		150	1.0	5	250	150	20			4
D2R	*	GEP	16	70		200	1.0	5	250	200	20			4
D2V	*	GEP	25	70		30	1.0	10	250	30	20		150	4
D2YE	*	GEP	16	70		100	1.0	10	250	100	20		150	4
D2ZH		GEP	8	70		150	1.0	10	250	150	20		150	4
2D503A		SID	200	120		30	1.0	10	4	30				1
2D503B		SID	200	120		30	1.2	10	4	30				1
D7A		GEP	300	70	25	50	0.5	300	100	50	20			11
D7B		GEP	300	70	25	100	0.5	300	100	100	20		50K	11
D7D		GEP	300	70	25	300	0.5	300	100	300	20		50K	11
D7G		GEP	300	70	25	200	0.5	300	100	200	20		50K	11
D7V		GEP	300	70	25	150	0.5	300	100	150	20		50K	11
D7YE		GEP	300	70	25	350	0.5	300	100	350	20		50K	11
D7ZH		GEP	300	70	25	400	0.5	300	100	400	20		50K	11
D9A		GEP	25	70		10	1.0	10	250	10	20		40	1
D9B		GEP	40	70		10	1.0	90	250	10	20		40	1
D9D		GEP	30	70		30	1.0	60	250	30	20		40	1
D9G		GEP	25	70		30	1.0	30	250	30	20		40	1
D9I		GEP	30	70		30	1.0	30	120	30	20		40	1
D9K		GEP	30	70		30	1.0	60	60	30	20		40	1
D9L		GEP	15	70		100	1.0	30	250	100	20		40	1
D9M		GEP	30	70		30	1.0	60	250	50	20			1
D9V		GEP	20	70		30	1.0	10	250	30	20		40	1
D9YE		GEP	20	70		50	1.0	30	250	50	20		40	1
D9ZH		GEP	15	70		100	1.0	10	250	100	20		40	1
D10		GEP	50	70		20	1.5	3	100	10	20		150	4
D10A		GEP	50	70		20	1.5	5	200	10	20		150	4
D10B		GEP	50	70		20	1.5	8	200	10	20		150	4
D11		GEP	60	70		30	1.0	100	250	30	20		150	4
D12		GEP	60	70		50	1.0	100	250	50	20		150	4
D12A		GEP	70	70		50	1.0	100	250	50	20		150	4
D13		GEP	60	70		75	1.0	100	250	75	20		150	4
D14		GEP	60	70		100	1.0	100	250	100	20		150	4

GROUP XI, DIODES—RECTIFIERS

TYPE NUMBER	TYPE	MAXIMUM			MAXIMUM @ 25 °C			MAXIMUM			f_{max}	FIG
		I_F @ 25 mA	T_{opr} °C	I_S @ 25 °C A	PIV V	E_F @ I_F MIN E_F V	I_F mA	I_R @ E_r V	E_r @ T°C V	T°C °C	MHz	
D14A	GEP	60	70		100	1.0	100	250	100	20	150	4
D15	GEP				30	1.0	15	300	30		300	
D16	GEP				50	1.0	5	500	50		300	
D16A	GEP				50	1.0	10	500	50		300	
D17	GEP				100	1.0	4	400	100		300	
D18	GEP	20	70		20	1.0	20	50	20	20		2
D19	GEP	45	70		40	1.0	45	100	40	50		1
D19A	GEP	60	70		20	1.0	60	100	20	50		1
D19B	GEP	45	70		20	1.0	45	100	20	50		1
D20	GEP	20	70		10	1.0	10	50	10	20		2
D21	GEP	16	70		150	1.0	5	250	100	20	150	4
D101	SIP	50	150	/1	100	2.0	2	100	75	125	600	4
D101A	SIP	75	150	/1	100	1.0	1	75	75	125	600	4
D102	SIP	50	150	/1	75	2.0	2	100	50	125	600	4
D102A	SIP	75	150	/1	75	1.0	1	100	50	125	600	4
D103	SIP	50	150	/1	30	2.0	2	100	30	125	600	4
D103A	SIP	75	150	/1	30	1.0	1	100	30	125	600	4
KD103A	SIA	100			50	1.0	50	50	50	100		1A
KD103B	SIA	100			50	1.2	50	50	50	100		1A
D104	SIP	30	150	/1	100	2.0	2	150	75	125	600	2
D104A	SIP	30	150	/1	100	1.0	1	150	75	125	600	2
D105	SIP	30	150	/1	75	2.0	2	100	50	125	600	2
D105A	SIP	30	150	/1	75	1.0	1	100	50	125	600	2
KD105A	SIA	300			200	1.0	300	300	150	85		7A
KD105B	SIA	300			400	1.0	300	300	300	85		7A
KD105V	SIA	300			600	1.0	300	300	450	85		7A
D106	SIP	30	150	/1	30	2.0	2	100	30	125	600	2
D106A	SIP	30	150	/1	30	1.0	1	50	30	125	600	2
D107	SIP	10	125		10	1.0	10	/1	10	50		2
D107A	SIP	10	125		10	1.0	10	10	10	125		2
D108	SIP	10	125		30	1.0	10	35	30	25		2
D109	SIP	10	125		50	1.0	10	20	30	25		2
D201A	SI	200	125		25	1.5		500	25		/0.1	13
D201B	SI	200	125		50	1.5		500	50		/0.1	13
D201D	SI	400	125		100	2.0		500	100		/0.1	13
D201G	SI	200	125		100	1.5		500	100		/0.1	13
D201T5	SI	400	125		200	2.0		500	200		/0.1	13
D201V	SI	400	125		50	2.0		500	50		/0.1	13
D201YE	SI	200	125		200	2.0		500	200		/0.1	13
D201ZH	SI	400	125		200	2.0	400	500	200		/0.1	13
D202	SIA	400	125		100	1.0	400	500	100	85	0.1	13
KD202A	SID	3A	130		50	1.0	3A	1000	50	120		13
KD202B	SID	1A	130		50	1.0	1A	1000	50	120		13
KD202D	SID	15H	120		200	1.0	3000	1000	200	120	/0.1	13
KD202G	SID	15H	120		100	1.0	1000	1000	100	120	/0.1	13
KD202I	SID	15H	120		300	1.0	1000	1000	300	120	/0.1	13
KD202K	SID	15H	120		400	1.0	3000	1000	400	120	/0.1	13

GROUP XI, DIODES—RECTIFIERS

TYPE NUMBER	TYPE	MAXIMUM			MAXIMUM @ 25 °C			MAXIMUM				f_{Max}	FIG
		I_F @25 mA	T_{Opr} °C	I_S @25°C A	PIV V	E_F @ I_F * MIN E_F V	I_F mA	I_R µA	@ E_r V	@ T°C °C		MHz	
KD202L	SID	15H	120		400	1.0	1000	1000	400	120		/0.1	13
KD202M	SID	15H	120		500	1.0	3000	1000	500	120		/0.1	13
KD202N	SID	15H	120		500	1.0	1000	1000	500	120		/0.1	13
KD202R	SID	15H	120		600	1.0	3000	1000	600	120		/0.1	13
KD202S	SID	15H	120		600	1.0	1000	1000	600	120		/0.1	13
KD202V	SID	15H	120		100	1.0	3000	1000	100	120		/0.1	13
KD202YE	SID	15H	120		200	1.0	1000	1000	200	120		/0.1	13
KD202ZH	SID	15H	120		300	1.0	3000	1000	300	120		/0.1	13
D203	SIA	400	125		200	1.0	400	500	200	85		0.1	13
D204	SIA	400	125		300	1.0	400	500	300	85		0.1	13
D205	SIA	400	125		400	1.0	400	500	400	85		0.1	13
D206	SIA	100	125		100	1.0	100	100	100	125		0.1	10
D207	SIA	100	125		200	1.0	100	100	200	125		0.1	10
D208	SIA	100	125		300	1.0	100	100	300	125		0.1	10
D209	SIA	100	125		400	1.0	100	100	400	125		0.1	10
D210	SIA	100	125		500	1.0	100	100	500	125		0.1	10
D211	SIA	100	125		600	1.0	100	100	600	125		0.1	10
D214	SIA	5A	125		100	1.0	5A	3000	100	125			14
D214A	SIA	10A	125		100	1.0	10A	3000	100	125			14
D214B	SIA	2A	125		100	1.0	2000	3000	100	20		1K	14
D215	SIA	5A	125		200	1.0	5A	3000	200	125			14
D215A	SIA	10A	125		200	1.0	10A	3000	200	125			14
D215B	SIA	2A	125		200	1.0	2000	3000	200	20		1K	14
D217	SIA	100	125		800	0.5	100	50	800	20		1K	9
D218	SIA	100	125		1000	0.5	100	50	1000	20		1K	9
D219A	SIA	50	125	/1	70	1.0	50	30	70	100			2
D220	SIA	50	125	/1	50	1.5	50	20	50	100			2
D220A	SIA	50	125	/1	70	1.5	50	30	70	100			2
D220B	SIA	50	125	/1	100	1.5	50	40	100	100			2
D221	SIA	400	125		400	1.0	400	500	400	125		3K	13
D222	SIA	400	125		600	1.0	400	500	600	125		3K	13
D223	SIA	50	125	/1	50	1.0	50	50	50	125			2
D223A	SIA	50	125	/1	100	1.0	50	50	100	125			2
D223B	SIA	50	125	/1	150	1.0	50	50	150	125			2
D224	SIA	5A	125		50	1.0	5000	3000	50	20			14
D224A	SIA	10A	125		50	1.0	10A	3000	50	20			14
D224B	SIA	2A	125		50	1.0	2000	3000	50	20			14
D225	SIA	30	125		5	1.0	30		5	20			8
D226	SIA	300	125		400	1.0	300	30	400	20			9
D226A	SIA	300	125		300	1.0	300	30	300	20			9
D226B	SIA	300			400	1.0	300	300	300	80			9
D226D	SIA	300	125		100	1.0	300	300	100	80			9
D226G	SIA	300	125		200	1.0	300	300	200	80			9
D226V	SIA	300	125		300	1.0	300	300	300	80			9
D226YC	SIA	300	125		400	1.0	300	300	400	80			9
D229A	SIA	400	125		200	1.0	400	50	200	20			3
D229B	SIA	400	125		400	1.0	400	50	400	20			3
D229D	SIA	400	85		300	1.0	400	500	300	85			13

GROUP XI, DIODES—RECTIFIERS

TYPE NUMBER	TYPE	MAXIMUM			MAXIMUM @ 25 °C			MAXIMUM			f_{Max}	FIG
		I_F @25 mA	T_{Opr} °C	I_S @25°C A	PIV V	E_F @ MIN E_F V	I_F mA	I_R @ µA	E_r @ V	T°C °C	MHz	
D229E	SIA	400	85		400	1.0	400	500	400	85		13
D229G	SIA	400	85		200	1.0	400	500	200	85		13
D229V	SIA	400	85		100	1.0	400	500	100	85		13
D230A	SIA	300	125		200	1.0	300	50	200	20		9
D230B	SIA	300	125		400	1.0	300	50	400	20		9
D231,P	SIA	10A	130		300	1.0	10A	3000	300	130		14
D231A,P	SIA	10A	130		300	1.0	10A	3000	300	130		14
D232,P	SIA	10A	130		400	1.0	10A	3000	400	130		14
D232A,P	SIA	10A	130		400	1.0	10A	3000	400	130		14
D232B,P	SIA	10A	130		400	1.0	10A	3000	400	130		14
D233,P	SIA	10A	130		500	1.0	10A	3000	500	130		14
D233A	SIA	10A	125		500	1.5	10A	3000	500	20		14
D233B,P	SIA	10A	130		500	1.0	10A	3000	500	130		14
D234B,P	SIA	10A	130		600	1.0	10A	3000	600	130		14
D242,P	SI	10A	130		100	1.25	10A	3M	100	120	K1.0	14
D242A,P	SI	10A	130		100	1.0	10A	3M	100	120	K1.0	14
D242B,P	SI	5A	130		100	1.5	5A	3M	100	120	K1.0	14
D243,P	SI	10A	130		200	1.25	10A	3M	200	120	K1.0	14
D243A,P	SI	10A	130		200	1.0		3M	200	130	K1.0	14
D243B,P	SI	5A	130		200	1.5	5A	3M	200	120	K1.0	14
D244,P	SI	10A	130		50	1.25		3M	50	130	K1.0	14
D244A,P	SI	10A	130		50	1.0		3M	50	130	K1.0	14
D244B,P	SI	5A	130		50	1.5		3M	50	130	K1.0	14
D245	SI	10A	130		300	1.25	10A	3M	300	120	K1.0	14
D245A	SI	10A	130		300	1.0	10A	3M	300	120	K1.0	14
D245B	SI	5A	130		300	1.5	5A	3M	300	120	K1.0	14
D246	SI	10A	130		400	1.25	10A	3M	400	120	K1.0	14
D246A	SI	10A	130		400	1.0	10A	3000	400	120		14
D246B	SI	5A	130		400	1.5	5A	3M	400	120	K1.0	14
D247	SI	10A	130		500	1.25	10A	3M	500	120	K1.0	14
D247B	SI	5A	130		500	1.5	5A	3M	500	120	K1.0	14
D248B	SI	5A	130		600	1.5	5A	3000	600	120		14
D302	GEA	1A	70		200	0.25	1A	1000	200	20	50K	16
D302A	SI	1A	55		200	0.3	1A	3700	50	55		16
D303	GEA	3A	70		150	0.3	3A	1000	150	20	50K	16
D303A	SI	3A			150	0.35	3A	5M	50	55		16
D304	GEA	5A	70		100	0.3	5A	3000	100	20	50K	16
D305	GEA	10A	70		50	0.35	10A	3000	50	20	50K	16
D310	GEA	500	70		20			100	20	70		7
D311	GE	40	70		30	0.4	10	100	30			2
D311A	GE	80	70		30	0.4	10	100	30			2
D311B	GE	20	70		30	0.5	10	100	30			2
D312	GEM	50	70		100	0.5	10	100	100	20		2
D312A	GEM	50	70		75	0.5	10	100	75	20		2
D312B	GE	50	60		100	0.5	50	100	100	25		2
KTS401A	SI	400	70	5A	500	2.5	300	100	500	25		21
KTS401B	SI	500	70	5A	500	2.5	400	100	500	25		22
GD402A	GE	25	60		15	0.5	25	100	15	25		2

GROUP XI, DIODES—RECTIFIERS

TYPE NUMBER		TYPE	MAXIMUM I_F @25 mA	MAXIMUM T_{Opr} °C	MAXIMUM I_S @25°C A	MAXIMUM @ 25 °C PIV V	MAXIMUM @ 25 °C E_F * MIN V @ I_F mA	MAXIMUM I_R @ E_r @ T°C µA V °C	f_{Max} MHz	FIG
GD402B		GE	25	60		15	0.5 25	100 15 25		2
KD503A		SIM	20	100		3	1.0 10	4 30 30		1
KD503B		SIM	20	100		3	1.2 10	4 30 30		1
GD507A		GE	16	60		20	0.5 16	50 20 25		2
D1001		GE	100	80		2000	6.5 100	150 2000	/0.1	17
D1001A		GE	100	80		1000	3.5 100	150 1000	/0.1	17
D1002		GE	300	80		2000	7.5 300	300 2000	/0.1	17
D1002A		GE	300	80		1000	4.0 300	300 1000	/0.1	17
D1003A		GE	300	80		500	2.0 300	300 500	/0.1	17
D1004		SIA	100	125		2000	4.0 100	100 2000 20		20A
D1005A		SIA	50	125		4000	4.0 50	100 4000 20		20A
D1005B		SIA	100	125		4000	6.0 100	100 4000 20		20B
D1006		SIA	100	125		6000	6.0 100	100 6000 20		20B
D1007		SIA	75	125		8000	6.0 100	100 8000 20		20B
D1008		SIA	50	125		10K	6.0 100	100 10K 20		20B
D1009		SIA	100	125		2000	7.0 100	100 2000 20		18A
D1009A		SIA	100	125		1000	3.5 300	100 1000 20		19
D1010		SIA	300	125		2000	1.1 300	100 2000 20		18B
D1010A		SIA	300	125		1000	5.5 300	100 1000 20		19
D1011A		SIA	300	125		500	2.5 300	100 500 20		19
D1602A		GE	300	70		200	1.0 300	1 200		
D1602B		GE	300	70		300	1.0 300	1 300		
D1602V		GE	300	70		400	1.0 300	1 400		
DG-TS1	*	GEP	16	70	/1	50	*1.0 2	1000 50 20		6
DG-TS2	*	GEP	16	70	/1	75	*1.0 4	500 50 20		6
DG-TS3	*	GEP	25			50	1.0 2	100 50 20		6
DG-TS4	*	GEP	16	70	/1	100	*1.0 2	800 75 20		6
DG-TS5	*	GEP	16	70	/1	100	*1.0 1	250 75 20		6
DG-TS6	*	GEP	16	70	/1	125	*1.0 1	800 100 20		6
DG-TS7	*	GEP	16	70	/1	125	*1.0 1	250 100 20		6
DG-TS8	*	GEP	25	70	/1	50	*1.0 10	500 30 20		6
DG-TS9		GEP	50	70	/1	45	*1.0 10	100 10 20		6
DGTS10		GEP	50	70	/1	45	*1.0 5	60 10 20	150	6
DGTS12		GEP	16	70		30	1.0		150	6
DGTS13		GEP	16	70		30	1.0			6
DGTS14		GEP	16	70		50	1.0			6
DGTS15		GEP	50	70		150	1.0 1	800 150 20		6
DGTS16		GEP	50	70		150	1.0 1	250 150 20		6
DGTS17	*	GEP	50	70		200	*1.0 1	800 200 20		6
DGTS21	*	GEA	300	70		50	0.5 300	300 50 20	50K	3
DGTS22	*	GEA	300	70		100	0.5 300	300 100 20	50K	3
DGTS23	*	GEA	300	70		150	0.5 300	300 150 20	50K	3
DGTS24	*	GEA	300	70		200	0.5 300	300 200 20	50K	3
DGTS25	*	GEA	100	70		300	0.3 100	300 300 20	50K	3
DGTS26	*	GEA	100	70		350	0.3 100	300 350 20	50K	3
DGTS27	*	GEA	100	70		400	0.3 100	300 400 20	50K	3

GROUP XI-A, DIODES—SWITCHING

TYPE NUMBER	KIND	TYPE	SWITCH RANGE		MAXIMUM CURRENT				SWITCH TIME		CAPACITY	FIG
			MIN	MAX	SWITCH OFF	SWITCH ON	I_F	LEAKAGE	OFF	ON		
			V	V	mA	mA	mA	μA	μs	μs	pF	
D227-A	SWI	SI4	10	20	15	5	200	100	10	0.5	100	13
D227-B	SWI	SI4	14	28	15	5	200	100	10	0.5	100	13
D227-D	SWI	SI4	40	80	15	5	200	100	10	0.5	100	13
D227-G	SWI	SI4	28	56	15	5	200	100	10	0.5	100	13
D227-I	SWI	SI4	100	200	15	5	200	100	10	0.5	100	13
D227-V	SWI	SI4	20	40	15	5	200	100	10	0.5	100	13
D227YE	SWI	SI4	56	112	15	5	200	100	10	0.5	100	13
D227-ZH	SWI	SI4	80	160	15	5	200	100	10	0.5	100	13
D228-A	SWI	SI4	10	20	15	1	50	60	5	0.1	80	9
D228-B	SWI	SI4	14	28	15	1	50	60	5	0.1	80	9
D228-D	SWI	SI4	40	80	15	1	50	60	5	0.1	80	9
D228-G	SWI	SI4	28	56	15	1	50	60	5	0.1	80	9
D228-I	SWI	SI4	100	200	15	1	50	60	5	0.1	80	9
D228-V	SWI	SI4	20	40	15	1	50	60	5	0.1	80	9
D228YE	SWI	SI4	56	112	15	1	50	60	5	0.1	80	9
D228-ZH	SWI	SI4	80	160	15	1	50	60	5	0.1	80	9

GROUP XI-B, DIODES—TUNNEL

TYPE NUMBER	KIND	TYPE	MAXIMUM		MIN	V_{FM}		CAP	FIG
			I_p mA	I_p/I_v	V_p mV	MIN mV	MAX mV	pF	
AI-101A	TUN	GAS	1	5	160			3	23F
AI-101B	TUN	GAS	1	5	160			6	23F
AI-101D	TUN	GAS	2	6	160			6	23F
AI-101G	TUN	GAS	2	6	160			4	23F
AI-101I	TUN	GAS	5	6	180			10	23F
AI-101V	TUN	GAS	2	6	160			2	23F
AI-101YE	TUN	GAS	5	6	180			3	23F
AI-101ZH	TUN	GAS	5	6	180			6	23F
AI-201A	TUN	GAS	10	10	200			4	23F
AI-201B	TUN	GAS	10	10	180			6	23F
AI-201D	TUN	GAS	20	10	200			7	23F
AI-201G	TUN	GAS	20	10	210			4	23F
AI-201I	TUN	GAS	50	10	260			15	23F
AI-201K	TUN	GAS	H1	10	330			15	23F
AI-201L	TUN	GAS	H1	10	330			40	23F
AI-201V	TUN	GAS	10	10	180			10	23F
AI-201YE	TUN	GAS	20	10	200			12	23F
AI-201ZH	TUN	GAS	50	10	260			8	23F
1I-302A	TUN	GE	2.3	4.5	60		400	80	23A
1I-302B	TUN	GE	5.8	4.5	60		400	150	23A
1I-302G	TUN	GE	17	4.5	60		400	200	23A
1I-302V	TUN	GE	11.5	4.5	60		400	180	23A
3I-301A	TUN	GAS	2	8	180	650		12	23F
3I-301B	TUN	GAS	5	8	180	850	1150	25	23F
3I-301G	TUN	GAS	10	8	180	800		50	23F
3I-301V	TUN	GAS	5	8	180	1000	1300	25	23F

GROUP XI-C, DIODES—SWITCH CONTROL

TYPE NUMBER	KIND	TYPE	VOLTAGE		MAXIMUM CURRENTS				POWER		TIME MAX		TEMP		FIG
			SWITCH MAX V	RES. MIN V	CONT. MAX mA	SWITCH OFF mA	ON A	LEAK mA	MAX W	K_θ mW/°C	OFF μs	ON μs	MIN (−)°C	MAX (+)°C	
D235A	CON	SI	40	2	20	100	2	1	4	120	5	35	60	125	15
D235B	CON	SI	100	2	20	100	2	1	4	120	5	35	60	125	15
D235G	CON	SI	100	2	20	100	2	1	4	120	5	35	60	125	15
D235V	CON	SI	40	2	20	100	2	1	4	120	5	35	60	125	15
D238A	CON	SI	50	2			10		20	330	10	35	50	100	33
D238B	CON	SI	100	2			10		20	330	10	35	50	100	33
D238D	CON	SI	100	2			10		20	330	10	35	50	100	33
D238G	CON	SI	50	2			10		20	330	10	35	50	100	33
D238V	CON	SI	150	2			10		20	330	10	35	50	100	33
D238YE	CON	SI	150	2			10		20	330	10	35	50	100	33

GROUP XI-D, DIODES—VARACTORS

TYPE NUMBER	KIND	TYPE	MAXIMUM		CAPACITY @ 4V				Q	POWER	TEMP		FIG
			VOLTS V	I_R μA	MIN pF	MAX pF	TC	EXP (−)		MAX mW	MIN (−)°C	MAX (+)°C	
D901A	VAR	SI	80	1	22	32	5	4	25	250	60	125	7
D901B	VAR	SI	45	1	22	32	5	4	30	250	60	125	7
D901D	VAR	SI	80	1	34	44	5	4	25	250	60	125	7
D901G	VAR	SI	45	1	28	38	5	4	30	250	60	125	7
D901V	VAR	SI	80	1	28	38	5	4	25	250	60	125	7
D901YE	VAR	SI	45	1	34	44	5	4	30	250	60	125	7
D902	VAR	SI	25		6	12			30	250			

GROUP XI-E MISCELLANEOUS DIODES

TYPE NUMBER	KIND	TYPE	CURRENT			VOLTAGE		MAX. CAP.	SWITCHING			POWER
			I_F mA	I_S mA	I_R μA	V_F V	V_R V	pF	RATIO	DAMP. dB	t_{rr} ns	mW
1A501A	PIN				0.5			0.1	150	0.8		100
1A501G	PIN				0.5			0.16	150	0.8		100
1A501I	PIN				0.5			0.07	150	0.8		100
1A504A	PIN				100			0.9	500	0.5		25H
1A504B	PIN				100			0.9	200	0.8		25H
GI401A	BWD	GE	0.3		40H	0.33	/0.1	2.5				
GI401B	BWD	GE	0.3		56H	0.33	/0.1	5.0				
KD901B	2DA	SI	10		0.2	0.7		4.0				
KD901A	1DA	SI	10		0.2	0.7		4.0				
KD901G	4DA	SI	10		0.2	0.7		4.0				
KD901V	3DA	SI	10		0.2	0.7		4.0				
KD902D	1DA	SI	1.0		0.2	0.85		2.0				
KD902I	4DA	SI	1.0		0.2	0.85		2.0				
KD902ZH	3DA	SI	1.0		0.2	0.85		2.0				
KD902YE	2DA	SI	1.0		0.2	0.85		2.0				
KD903A	8DA	SI	1.0	350	0.5	1.2		10.0			150	
KD903B	8DA	SI	75	350	0.5	1.2		10.0			150	
KD904A	1DA	SI	1.0		0.2	0.8		2.5				
KD904B	2DA	SI	1.0		0.2	0.8		2.5				
KD904D	3DA	SI	1.0		0.2	0.8		2.5				
KD904G	4DA	SI	1.0		0.2	0.8		2.5				
KD904V	3DA	SI	1.0		0.2	0.8		2.5				
KD904YE	4DA	SI	1.0		0.2	0.8		2.5				
KD906	4DA	SI	50		1.0	1.0	75					
KD907	DA	SI	50		6.0	1.0		6.0			6	
KD909	8DA	SI	200	800			40	5.0			50	

GROUP XII, DIODES—POWER RECTIFIERS

TYPE NUMBER	KIND	TYPE	MAXIMUM OPR TEMP °C	MAXIMUM I_f Amp	MAXIMUM E_f V	MAXIMUM I_r mA	MAXIMUM E_R IN VOLTS AVAILABLE FOR FOLLOWING SUBCLASSES 15	30	45	50	55	70	80	100	110	150	2M	3M	4M	5M	6M	7M	8M	COOLING KIND	RATE	RADIATOR
VG-5	POW	GE	75	5	0.5			X		X			X	X		X	X	X						AN		
VG-5	POW	GE	75	10	0.5			X		X			X	X		X								AF	10M	
VG-10	POW	GE	75	10	0.5			X																AN		
VG-10-30	POW	GE	75	20	0.5	10		X																AF	10M	
VG-10-45	POW	GE	75	20	0.5	8			X															AF	10M	
VG-10-55	POW	GE	75	20	0.5	6					X													AF	10M	
VG-10-80	POW	GE	75	20	0.5	5							X											AF	10M	
VG-10-110	POW	GE	75	20	0.5	4									X									AF	10M	
VG-10-150	POW	GE	75	20	0.5	3											X							AF	10M	
VG-30	POW	GE	75	30	0.5			X		X			X	X		X								AF	10M	
VG-50	POW	GE	75	50	0.5	40	X	X																AF	10M	
VG-50	POW	GE	75	50	0.5	30			X		X													AF	10M	
VG-50	POW	GE	75	50	0.5	20						X			X	X								AF	10M	
VG-100	POW	GE	75	100	0.5			X		X			X	X		X								AF	10M	
VGV200	POW	GE	75	200	0.6	100	X	X	X	X	X		X	X										W	4L	
VGV500	POW	GE	75	500	0.6			X		X			X	X										W	4L	
VGV1000	POW	GE	75	1000	0.8			X		X			X	X										W	4L	
VK-10	POW	SI	200	10	0.9					X				X		X	X	X	X	X	X	X	X	AN		
VK-10	POW	SI	200	20	0.9					X				X		X	X	X	X	X	X	X		AF	15M	
VK-25	POW	SI	200	25	0.9					X				X		X	X	X	X	X	X	X		AF	5M	
VK-25	POW	SI	200	50	0.9					X				X		X	X	X	X	X	X	X		AF	15M	X
VK-50	POW	SI	200	50	0.9					X				X		X	X	X	X	X	X	X		AF	5M	
VK-50	POW	SI	200	100	0.9					X				X		X	X	X	X	X	X	X		AF	15M	X
VK-100	POW	SI	200	100	0.9					X				X		X	X	X	X	X	X	X		AF	10M	
VK-100	POW	SI	200	150	0.9					X				X		X	X	X	X	X	X	X		AF	15M	X
VK-200	POW	SI	200	200	0.9					X				X		X	X	X	X	X	X			AF	15M	X
VKV200	POW	SI	200	200	0.9					X				X		X	X	X	X	X	X			W	4L	X
VKV200	POW	SI	200	500	0.9					X				X		X	X	X	X					W	4L	X
VKV1000	POW	SI	200	1000	0.9					X				X		X	X	X						W	4L	X

GROUP XII—A SILICON CONTROLLED RECTIFIERS

TYPE NUMBER	KIND	TYPE	MAX. FORWARD CURRENT					PIV	MAXIMUM					I_R	FIG
			NONE	AIR-COOL		WATER-COOL			POWER		GATE PULSE				
				WITH RAD	FORCED AIR RAD	2L/m	5L/m	V	W	GATE W	V	A	WIDTH μ_s	mA	
VKU-10-0.25	SCR	SI4	1	5	10			50	20	1.25	20	1.0	20	20	24
VKU-10-0.5	SCR	SI4	1	5	10			100	20	1.25	20	1.0	20	20	24
VKU-10-0.75	SCR	SI4	1	5	10			150	20	1.25	20	1.0	20	20	24
VKU-10-1.0	SCR	SI4	1	5	10			200	20	1.25	20	1.0	20	20	24
VKU-10-1.5	SCR	SI4	1	5	10			250	20	1.25	20	1.0	20	20	24
VKU-10-2.0	SCR	SI4	1	5	10			400	20	1.25	20	1.0	20	20	24
VKU-10-2.5	SCR	SI4	1	5	10			500	20	1.25	20	1.0	20	20	24
VKU-10-3.0	SCR	SI4	1	5	10			600	20	1.25	20	1.0	20	20	24
VKU-20-0.25	SCR	SI4	3	10	20			50	20	1.25	20	1.0	20	20	25
VKU-20-0.5	SCR	SI4	3	10	20			100	20	1.25	20	1.0	20	20	25
VKU-20-0.75	SCR	SI4	3	10	20			150	20	1.25	20	1.0	20	20	25
VKU-20-1.0	SCR	SI4	3	10	20			200	20	1.25	20	1.0	20	20	25
VKU-20-1.5	SCR	SI4	3	10	20			250	20	1.25	20	1.0	20	20	25
VKU-20-2.0	SCR	SI4	3	10	20			400	20	1.25	20	1.0	20	20	25
VKU-20-2.5	SCR	SI4	3	10	20			500	20	1.25	20	1.0	20	20	25
VKU-20-3.0	SCR	SI4	3	10	20			600	20	1.25	20	1.0	20	20	25
VKU-50-0.25	SCR	SI4	15	32	50			50	30	1.87	20	1.5	20	20	25
VKU-50-0.5	SCR	SI4	15	32	50			100	30	1.87	20	1.5	20	20	25
VKU-50-0.75	SCR	SI4	15	32	50			150	30	1.87	20	1.5	20	20	25
VKU-50-1.0	SCR	SI4	15	32	50			200	30	1.87	20	1.5	20	20	25
VKU-50-1.5	SCR	SI4	15	32	50			250	30	1.87	20	1.5	20	20	25
VKU-50-2.0	SCR	SI4	15	32	50			400	30	1.87	20	1.5	20	20	25
VKU-50-2.5	SCR	SI4	15	32	50			500	30	1.87	20	1.5	20	20	25
VKU-50-3.0	SCR	SI4	15	32	50			600	30	1.87	20	1.5	20	20	25
VKU100-0.25	SCR	SI4		22	100			50	40	2.5	20	2.0	20	20	26
VKU100-0.5	SCR	SI4		22	100			100	40	2.5	20	2.0	20	20	26
VKU100-0.75	SCR	SI4		22	100			150	40	2.5	20	2.0	20	20	26
VKU100-1.0	SCR	SI4		22	100			200	40	2.5	20	2.0	20	20	26
VKU100-1.5	SCR	SI4		22	100			250	40	2.5	20	2.0	20	20	26
VKU100-2.0	SCR	SI4		22	100			400	40	2.5	20	2.0	20	20	26
VKU100-2.5	SCR	SI4		22	100			500	40	2.5	20	2.0	20	20	26
VKU100-3.0	SCR	SI4		22	100			600	40	2.5	20	2.0	20	20	26
VKUV-100-0.25	SCR	SI4	15			60	100	50	40	2.5	20	2.0	20	20	27
VKUV-100-0.5	SCR	SI4	15			60	100	100	40	2.5	20	2.0	20	20	27
VKUV-100-0.75	SCR	SI4	15			60	100	150	40	2.5	20	2.0	20	20	27
VKUV-100-1.0	SCR	SI4	15			60	100	200	40	2.5	20	2.0	20	20	27
VKUV-100-1.5	SCR	SI4	15			60	100	250	40	2.5	20	2.0	20	20	27
VKUV-100-2.0	SCR	SI4	15			60	100	400	40	2.5	20	2.0	20	20	27
VKUV-100-2.5	SCR	SI4	15			60	100	500	40	2.5	20	2.0	20	20	27
VKUV-100-3.0	SCR	SI4	15			60	100	600	40	2.5	20	2.0	20	20	27
2U-101A	SCR	TRI	.05					40							
2U-101B	SCR	TRI	.05					40							
2U-101D	SCR	TRI	.05					150							
2U-101G	SCR	TRI	.05					80							
2U-101V	SCR	TRI	.05					80							

GROUP XII-A SILICON CONTROLLED RECTIFIERS

TYPE NUMBER	KIND	TYPE	MAX. FORWARD CURRENT					PIV	MAXIMUM					I_R	FIG
			NONE	AIR-COOL		WATER-COOL			POWER		GATE PULSE				
				WITH RAD	FORCED AIR RAD	2L/m	5L/m	V	W	GATE W	V	A	WIDTH μ_s	mA	
2U-101Y$_E$	SCR	TRI	.05					150							
KU-201A	SCR	TRI	2					25							
KU-201B	SCR	TRI	2					25							
KU-201D	SCR	TRI	2					100							
KU-201G	SCR	TRI	2					50							
KU-201I	SCR	TRI	2					200							
KU-201K	SCR	TRI	2					300							
KU-201L	SCR	TRI	2					300							
KU-201V	SCR	TRI	2					50							
KU-201Y$_E$	SCR	TRI	2					100							
KU-201Z$_H$	SCR	TRI	2					200							
KU-202A	SCR	TRI	10					25	20	1.5	10			5	15
KU-202B	SCR	TRI	10					25	20	1.5	10			5	15
KU-202D	SCR	TRI	10					100	20	1.5	10			5	15
KU-202G	SCR	TRI	10					50	20	1.5	10			5	15
KU-202I	SCR	TRI	10					200	20	1.5	10			5	15
KU-202K	SCR	TRI	10					300	20	1.5	10			5	15
KU-202L	SCR	TRI	10					300	20	1.5	10			5	15
KU-202M	SCR	TRI	10					400	20	1.5	10			5	15
KU-202N	SCR	TRI	10					400	20	1.5	10			5	15
KU-202V	SCR	TRI	10					50	20	1.5	10			5	15
KU-202Y$_E$	SCR	TRI	10					100	20	1.5	10			5	15
KU-202Z$_H$	SCR	TRI	10					200	20	1.5	10			5	15

GROUP XIII, DIODES - REGULATORS

TYPE NUMBER	KIND	TYPE	MAXIMUM			TYPICAL			MAX	TC	K_θ	FIG
			I_Z mA	T_{Opr} C	P_Z mW	E_Z V	ΔE_Z %	I_Z mA	Z Ω	%/°C	mW/°C	
D6	REG	SI	18	150	125	6.5		5.0	10	.03		
D7	REG	SI	18	150	125	7.5		5.0	10	.06		
D8	REG	SI	14	150	125	8.5		5.0	10	.07		
KS133A	REG	SI	81	100	300	3.3	10	10.0	65	.1		12
KS139A	REG	SI	70	100	300	3.9	10	10.0	60	.1		12
KS147A	REG	SI	58	100	300	4.7	10	10.0	56	.08		12
KS156A	REG	SI	55	100	300	5.6	10	10.0	46	.05		12
KS168A	REG	SI	45	100	300	6.8	10	10.0	28	.06		12
KS194A	REG	SI		60		9.4	5		18	.005		
KS194B	REG	SI		60		9.4	5		18	.003		
KS194G	REG	SI		60		9.4	5		18	.001		
KS194V	REG	SI		60		9.4	5		18	.001		
KS211B	REG	SI	33	120	280	11.0	20	10.0	15	.02		33
KS211D	REG	SI	33	120	280	11.0	15	10.0	15	.005		33
KS211G	REG	SI	33	120	280	11.0	15	10.0	15	.01		33
KS211V	REG	SI	33	120	280	11.0	20	10.0	15	.02		33
KS620A	REG	SI	42	100	5W	120	15	50	150	.2		33
KS630A	REG	SI	38	100	5W	130	15	50	180	.2		33
KS650A	REG	SI	33	100	5W	150	15	25	255	.2		33
KS680A	REG	SI	28	100	5W	180	15	25	230	.2		33
D808	REG	SI	33	125	280	7.7	10	5.0	6	.07	3	17
D809	REG	SI	29	125	280	8.7	10	5.0	10	.08	3	17
D810	REG	SI	26	125	280	9.7	10	5.0	12	.09	3	17
D811	REG	SI	23	125	280	11.0	10	5.0	15	.095	3	17
D813	REG	SI	20	125	280	12.7	10	5.0	18	.095	3	17
D814-A	REG	SI	40	125	340	7.8	10	5.0	6	.07		5
D814-B	REG	SI	36	125	340	8.8	10	5.0	10	.08		5
D814-D	REG	SI	24	125	340	12.8	10	5.0	18	.095		5
D814-G	REG	SI	29	125	340	11.0	10	5.0	15	.095		5
D814-V	REG	SI	32	125	340	9.8	10	5.0	12	.09		5
D815A,P	REG	SI	14H	125	8W	5.6	10	50.0	/1	.045		13
D815B,P	REG	SI	11H	125	8W	6.8	10	50.0	/1	.05		13
D815D,P	REG	SI	650	125	8W	12.0	10	50.0	2	.09		13
D815G,P	REG	SI	800	125	8W	10.0	10	50.0	2	.08		13
D815I	REG	SI	14H	125	8W	4.7	10	50	/1	.005		13
D815V,P	REG	SI	950	125	8W	8.2	10	50.0	1	.07		13
D815YE,P	REG	SI	550	125	8W	15.0	10	50.0	3	.10		13
D815ZH,P	REG	SI	450	125	8W	18.0	10	50.0	3	.11		13
D816A,P	REG	SI	230	125	5W	22	10	10.0	7	.12		13
D816B,P	REG	SI	180	125	5W	27	10	10.0	8	.12		13
D816D,P	REG	SI	110	125	5W	47	10	10.0	15	.12		13
D816G,P	REG	SI	130	125	5W	39	10	10.0	12	.12		13
D816V,P	REG	SI	150	125	5W	33	10	10.0	10	.12		13
D817A,P	REG	SI	90	125	5W	56	10	5.0	35	.14		13
D817B,P	REG	SI	75	125	5W	68	10	5.0	40	.14		13
D817G,P	REG	SI	50	125	5W	100	10	5.0	50	.14		13
D817V,P	REG	SI	60	125	5W	82	10	5.0	45	.14		13
D818A	REG	SI	33	120	300	9.0		11.0	18	.02	70	8
D818B	REG	SI	33	120	300	9.0		11.0	18	.02	70	8
D818D	REG	SI	33	120	300	9.0		11.0	18	.002	70	8
D818G	REG	SI	33	120	300	9.0		11.0	18	.005	70	8
D818V	REG	SI	33	120	300	9.0		11.0	18	.01	70	8
D818YE	REG	SI	33	120	300	9.0		11.0	18	.001	70	8
SK1-5.6/1000	REG	SI		65	10W	5.6		1A	/1	.045		24
SK1-6.8/1000	REG	SI		65	10W	6.8		1A	1	.05		24

GROUP XIII, DIODES - REGULATORS

TYPE NUMBER	KIND	TYPE	MAXIMUM			TYPICAL			MAX	TC	K_θ	FIG
			I_Z mA	T_{Opr} C	P_Z mW	E_Z V	ΔE_Z %	I_Z mA	Z Ω	%/°C	mW/°C	
SK1-8.2/1000	REG	SI		65	10W	8.2		1A	2	.07		24
SK1-10/500	REG	SI		65	10W	10.0		500	2	.08		24
SK1-12/500	REG	SI		65	10W	12.0		500	3	.09		24
SK1-15/500	REG	SI		65	10W	15.0		500	4	.10		24
SK1-18/500	REG	SI		65	10W	18.0		500	4	.11		24
SK1-22/150	REG	SI		65	10W	22.0		150	7	.11		24
SK1-24/150	REG	SI		65	10W	24.0		150	8	.12		24
SK1-28/150	REG	SI		65	10W	28.0		150	12	.12		24
SK1-30/150	REG	SI		65	10W	30.0		150	30	.12		24
SK1-36/150	REG	SI		65	10W	36.0		150	45	.12		24
SK1-43/150	REG	SI		65	10W	43.0		150	60	.12		24
SK1-51/150	REG	SI		65	10W	51.0		150	70	.12		24
SK1-62/50	REG	SI		65	10W	62.0		50	80	.14		24
SK1-75/50	REG	SI		65	10W	75.0		50	100	.14		24
SK1-95/50	REG	SI		65	10W	91.0		50	100	.14		24
SK1-110/50	REG	SI		65	10W	110.0		50	110	.14		24
SK1-120/50	REG	SI		65	10W	120.0		50	112	.14		24
SK1-150/50	REG	SI		65	10W	150.0		50	150	.15		24
SK1-180/50	REG	SI		65	10W	180.0		50	150	.15		24
SK1-220/25	REG	SI		65	10W	220.0		25	300	.15		24
SK1-270/25	REG	SI		65	10W	270.0		25	400	.15		24
SK1-300/25	REG	SI		65	10W	300.0		25	500	.15		24
SK2-5.6/2000	REG	SI		65	15W	5.6		2A	/1	.04		25
SK2-6.8/2000	REG	SI		65	15W	6.8		2A	1	.05		25
SK2-8.2/2000	REG	SI		65	15W	8.2		2A	2	.7		25
SK2-10/1000	REG	SI		65	15W	10.0		2A	2	.08		25
SK2-12/1000	REG	SI		65	15W	12.0		1A	2	.09		25
SK2-15/1000	REG	SI		65	15W	15.0		1A	3	.10		25
SK2-18/700	REG	SI		65	15W	18.0		700	4	.11		25
SK2-22/300	REG	SI		65	15W	22.0		300	5	.12		25
SK2-24/300	REG	SI		65	15W	24.0		300	6	.12		25
SK2-28/300	REG	SI		65	15W	28.0		300	8	.12		25
SK2-30/300	REG	SI		65	15W	30.0		300	25	.12		25
SK2-36/300	REG	SI		65	15W	36.0		300	30	.12		25
SK2-43/300	REG	SI		65	15W	43.0		300	35	.12		25
SK2-51/200	REG	SI		65	15W	51.0		200	45	.12		25
SK2-62/200	REG	SI		65	15W	62.0		200	60	.14		25
SK2-75/100	REG	SI		65	15W	75.0		100	80	.14		25
SK2-91/100	REG	SI		65	15W	91.0		100	90	.14		25
SK2-120/100	REG	SI		65	15W	120.0		100	100	.14		25
SK2-150/100	REG	SI		65	15W	150.0		100	120	.14		25
SK2-180/100	REG	SI		65	15W	180.0		100	200	.15		25
SK2-220/50	REG	SI		65	15W	220.0		50	300	.15		25
SK2-270/50	REG	SI		65	15W	270.0		50	350	.15		25
SK2-300/50	REG	SI		65	15W	300.0		50	450	.15		25
2S-156A	REG	SI	55	120	300	5.6	10	10	46	.05		12
2S-168A	REG	SI	45	120	300	6.8	10	10	28	.06		12
2S920A,P	REG	SI	42	130	5W	120		5	100	.16		13
2S930A,P	REG	SI	38	130	5W	130		5	120	.16		13
2S950A,P	REG	SI	33	130	5W	150		2.5	170	.16		13
2S980A,P	REG	SI	28	130	5W	180			220	.16		13

GROUP XIV, DIODES—MIXERS AND DETECTORS

TYPE NUMBER	KIND	TYPE	TYPICAL WAVELENGTH cm	MAXIMUM RES Ω	MAXIMUM L_c dB	MAXIMUM NF_o dB	MAXIMUM VSWR	MAXIMUM PULSE PWR CONT mW	MAXIMUM PULSE PWR PEAK mW	MAXIMUM PULSE ENERGY CONT erg	MAXIMUM PULSE ENERGY PEAK erg	MIN CUR SENS A/W	OPR TEMP MIN (−)°C	OPR TEMP MAX (+)°C	FIG
2A201A				1K					20			5.5			
2A202A				1K					20			2.5			
D3A	VID	SI	3.2	950			2.5	50	300				60	70	20
D3B	VID	SI	9.8	950			2.5	50	300				60	70	20
D401	MIX	GE	8.5	1K	13.0			15					5	50	29
D402	MIX	SI		650	10.0	2.5	3.0	10		0.02			60	85	
D403A	MIX	GE	9.8	700	9.0	3.0	3.0		150	0.15			60	100	20
D403B	MIX	GE	9.8	600	8.5	3.0	3.5		150	0.15			60	100	20
D403V	MIX	GE	9.8	600	9.0		2.8		150	0.15			60	100	20
D404	MIX	SI		520	8.5	2.5	2.5	10	80	0.02	1.5		60	85	
D405	MIX	SI		400	7.0		2.0		80	0.6	1.5		60	100	31
D405A	MIX	SI		350	6.0		1.7		80	1.0	1.5		60	100	31
D405AP	MIX	SI		350	6.0		1.7		80	1.0	1.5		60	100	31
D405B	MIX	SI		330	8.0		1.4		80	1.0	1.5		60	100	31
D405BP	MIX	SI		330	8.0		1.4		80	1.0	1.5		60	100	31
D406	MIX	SI						40	300	0.1			60	100	30
D408	MIX	SI	9.8	390	6.0		1.3	100	500		0.5		60	125	30
D501		SI	H.2										60	100	30
D602A	VID	GE	3.2	600			3.2		50			1.5	60	85	28
D602B	VID	GE	3.2	900			3.2		50			1.5	60	85	28
D602V	VID	GE	3.2	900			3.2		50			4.0	60	85	28
D603	VID	SI	9.8	900			2.0		200			4.0	60	100	30
D604	VID	SI	3.0	900			2.0		10			2.5	60	100	30
D605	MIX	SI	3.2					600	2K				60	85	30
D607				12H					5			4.0			
D607A				12H					5			3.5			
D608				12H								4.0			
D609				2K					2			4.0			
DG-S1	MIX	GE	9.8	400	8.5	3.0	3.0	80	250	0.1	3.0		60	70	28
DG-S2	MIX	GE	9.8	400	6.5	3.0	3.0	80	250	0.1	3.0		60	70	28
DG-S3	MIX	GE	3.2	400	8.5	3.0	3.5	80	250	0.1	3.0		60	70	28
DG-S4	MIX	GE	3.2	400	6.5	3.0	3.0	50	250	0.1	3.0		60	70	28
DK-I1	DET	SI	9.8						200			0.5	50	70	30
DK-I2	DET	SI	3.2						200			0.2	50	70	30
DK-S1	MIX	SI	9.8	400	8.5	2.7	3.5	80	200	0.1	2.0		60	70	30
DK-S2	MIX	SI	9.8	400	6.5	2.0	3.0	50	100	0.06	2.0		60	70	30
DK-S3	MIX	SI	3.2	400	8.5	2.7	3.0	50	200	0.06	0.6		60	70	30
DK-S4	MIX	SI	3.2	400	6.5	2.7	2.5	30	100	0.06	0.3		60	70	30
DK-S5	MIX	SI	2.0	400	8.0	2.5	3.0	30	200	0.06	0.2		60	70	28
DK-S7	MIX	SI	3.2	900	7.0	2.0	2.0	50		0.15			60	80	28
DK-S7M	MIX	SI	3.0	700	6.5	2.0		100		0.3			60	80	30
DK-V1	VID	SI	9.8	15K				50	200			0.8	50	70	20
DK-V2	VID	SI	9.8	10K				50	100			1.2	50	70	20
DK-V3	VID	SI	3.2	15K				50	200			0.4	50	70	20
DK-V4	VID	SI	3.2	10K				50	100			0.8	50	70	20
DK-V5	VID	SI	9.8	10K				50	200			0.8	50	70	30
DK-V6	VID	SI	9.8	25K				50	200			0.8	50	70	30
DK-V7	VID	SI	3.2	10K				50	200			0.4	50	70	30
DK-V8	VID	SI	3.2	15H			3.0	50			0.3		60	70	28
DK-V11	VID	SI		10K			2.5	50				1.5	50	70	28

GROUP XV, DIODES–PHOTOCONDUCTIVE DEVICES

TYPE NUMBER	KIND	MAXIMUM			DARK		SENSITIVITY			T.C.	TIME CONST.	TEMP		WEIGHT	K AREA
		VOLTS	CUR.	POWER	RESISTANCE	CURRENT	μA/1mV	MAX	CUT OFF			MIN	MAX		
		V	μA	mW	MΩ	μA		μ	μ	%/°C	μs	(-)°C	(+)°C	gm	mm²
FS-AG	PBS	15			0.04		500	2.1	2.7	1.5		60	60		24
FS-AO	PBS	15			0.04		500	2.1	2.7	1.5		60	60		24
FS-AV	PBS	100			0.01		500	2.1	2.7	1.5		60	60		96
FS-DO	CDSE	200			20.0		20K	0.75	1.2	2.0		60	40		25
FS-KG	CDS				3.3		6000	0.64	0.9	0.2		60	80		25
FS-KO	CDS	300			3.3		1200	0.52	0.9	0.12		60	80		25
FS-KV	CDS	200			1.6		6000	0.64	0.9	0.2		60	80		50
FD-1	GE	15	800	15		30	20	1.4	1.7		10	0	40	1.0	20
FDK-1	SI	20				3	3	0.9	1.3		10	0	40	0.02	
FS-A1	PBS	15			0.04		500	2.1	2.7	1.5		60	60		24
FS-D1	CDSE	20	15H	50	2.0		20M	0.75	1.2	2.0		60	40		25
FS-K1	CDS	400			3.3		6000	0.64	0.9	0.2		60	80		25
FSA-G1	PBS	75			0.05		500	2.1	2.7	1.5	40	60	60	19.5	30
FSD-G1	CDSE	20	2K	50	20.0	1		0.75	1.2						
FSK-G1	CDS	50	15H	120	0.5	10	1200	0.64	0.9						
FSK-P1	CDS	100	2K	100	10K	/1		0.64	0.9						25
FT-1	GE	3		50		30	500	1.4	1.7		200	60	50	0.9	
FTG-1	GE	15		50		1000	20	1.4	1.7			40	40	1.2	1
FD-2	GE	30		15		25	20	1.4	1.7		10	0	40	0.85	14
FS-2A	PBS	17			0.3			0.7	3.5			60	40		9
FSA-G2	PBS	75			0.05		500	2.1	2.7	1.5	40	60	60	19.5	96
FS-B2	BIS	50			0.2		250	0.7	0.9			60	60		121
FS-K2	CDS	300			3.3		1200	0.52	0.9	0.12		60	80		25
FSK-G2	CDS	50	4K	200	0.5	10	2400	0.64	0.9						64
SF2-1	CDS	15	500	10	15			0.64	0.9						/1
SF-2-2	CDS	10	15H	50	4.0	/1		0.64	0.9						60
SF-2-4	CDS	15	750	10		1		0.64	0.9						2
SF-2-9	CDS	25	900	125	3.3			0.64	0.9						20
SF-2-12	CDS	15	12H	10	1.5			0.64	0.9						20
FD-3	GE	10	250			10	20	1.4	1.7		10	0	40	0.02	9
FS-3A	PBS	10			2.0			0.7	3.5			60	40		52
FS-K3	CDS	300			3.3		1200	0.52	0.9	0.12		60	80		25
SF3-1	CDSE	15	750	10	30			0.72	1.2						/1
SF-3-8		25	750	25		/1		0.75	1.2						
FS-A4	PBS	15			0.04		500	2.1	2.7	1.5		60	60		24
FS-K4	CDS	300			2.0		6000	0.64	0.9	0.2		60	80		24
SF-4-1		200		25	0.01	15						60	40		
FS-K5	CDS	300			10.0		3000	0.64	0.9	0.2		60	80		7
FS-A6	PBS	30	20	10	0.05		500	2.1	2.7	1.5		60	60		115
FS-D6	BIS	200			20.0		20M	0.75	1.2	2.0		60	40		115
FS-K6	CDS	300			3.3		3000	0.64	0.9	0.2		60	80		115
FS-K7	CDS	100			0.05		3500	0.64	0.9	0.2		60	80		200
FSK-7A	CDS	50	350	350	1.0	50		0.64	0.9						
FSK-7B	CDS	50	800	350	1.0	50	1200	0.64	0.9						
FSK-G7	CDS	50	2K	350	0.5	10	700	0.64	0.9						85
FS-K8	CDS	300			10.0		1600	0.64	0.9	0.2		60	80		15

GROUP XVI, PHOTO AND PHOTOMULTIPLIER TUBES

TYPE NUMBER	KIND	TYPE	BULB DIMEN			CATHODE			MAXIMUM				OUTPUT SENS		DYNODES			AMPLIFICATION
			SHAPE	DIAM mm	LGTH mm	AREA cm^2	SURF	SENS $\frac{\mu A}{\mu m}$	E_b v	I_k µA	DARK I Amp	DARK I (-) Exp	MIN Amp/L	OPR E_b v	DESIGN	MAT'L	NO	
F-1	PHO	VC	T	39	104		S2	100	300		1	14						
F-2	PHO	VC	T	20	67		S2	30	300		1	8	1					
F-3	PHO	VC	G	92	140		S10	70	50		1	9						
F-4	PHO	VC	T	39	104		S2	70	80		1	14						
F-5	PHO		T	42	104		S1		100		8	11						
F-6	PHO		G	33	76		S10	40	100		1	11						
F-7	PHO	VC	T	44	97		MG		300		1	11						
F-8	PHO		G	27	62		S2	80	150		1	8						
F-9	PHO	VC	G	40	88		S5	100	300		1	13						
F-10	PHO	VC	T	60	100		S5	80	300		1	12						
FEU-1	PHO		G	40	124		S2	400	250		1	7	1	220				
FEU-1B	PHM		B	80	285	44	S13	90	2000	300	1	7	3		L	AMK	11	
FEU-1B1V	PHM		T	80	225	44	S13	90	2500	1M	1	7	30		C	AMK	10	7
FEU-1B2V	PHM		T	80	225	44	S13	30	2500		1	7	300		C	AMK	12	7
FEU-1S	PHM		T	48	205	12	S13	90	1950	300	1	7	3		L	AMK	11	6
FEU-1V	PHM		T	48	166	12	S13	90	2500	1M	1	7	30		C	AMK	10	7
FEU-2	PHM		G	31	71		S2	400	250		1	7	1	220				
FEU-2B	PHM			150	295	155	S13	90	2000	300	1	7	3		L	AMK	11	6
FEU-2B1V	PHM		B	80	225	44	S13	90	2500		1	7			C		12	7
FEU-2M	PHM		T	34	130	5	S13	90	1600	300	1	7	3		L	AMK	13	5
FEU-2V	PHM		T	50	170	12	S10	90	2500	1M	1	7	300		C	AMK	12	7
FEU-3B	PHM		B	200	295	227	S13	90	2000	300	1	7	3		L	AMK	11	6
FEU-3M	PHM		T	19	75	/2	S13	90	1500	100	5	8	1		L	AMK	8	5
FEU-4	PHM		T	38	110	2	S5	600	240		1	14					1	
FEU-5	PHM		T	34	100	2	S4	400	240		1	14					1	
FEU-11	PHM		T	52	179	16	S10	80	2500	25M	8	7	5		V	CAM	12	7
FEU-12	PHM		T	52	179	16	S10	80	2500		8	7	5		V	CAM	12	7
FEU-13	PHM		T	52	129	17	S13	50	2200	5M	4	7	6	2200	V	CAM	12	
FEU-14	PHM		T	52	129	17	S10	60	2200	5M	4	7	6	2200	V	CAM	12	
FEU-15	SCC		T	31	115	3	S10	25	2200	5M	4	7	6	1700	V	CAM	12	
FEU-16	SCC		T	31	115	2	S2	25	2200	5M	4	7	6	1700	V	CAM	12	
FEU-17	PHM		T	48	181	/1	S2	20	1400	100	3	7	10	900	L		13	
FEU-17A	PHM		T	48	181	/1	S2	20	1400	100	3	7	10	900	L		13	
FEU-18	PHM		T	48	181	/1	S5	20	1400	100	3	7	10	900	L		13	
FEU-18A	PHM		T	48	181	/1	S5	20	1400	100	3	7	10	900	L		13	
FEU-19M	PHM		T	48	195	9	S4	15	2600	200	1	5	1000	2600	L		13	7
FEU-20	PHM		T	34	95	/2	S4	20	900	100	5	11	1	900	L		8	
FEU-22	PHM		T	48	181	/1	S1	25	2000	300	2	8	1	1400	L		13	
FEU-23	PHM			305	450	700	S10	20	2400	10			10		L	AMK	11	5
FEU-24	SCC		T	80	230	44	S4	35	2000	200	3	7	10	1600	L		13	6
FEU-25	PHM		T	34	109	5	S4	20	1700	100	5	8	1	1250	L		9	6
FEU-26L	PHM		T	22	70	1	S4	20	900	75	2	8	10	2000			7	
FEU-27	PHM		T	30	108		S1	30	2000		5	9	100				1	
FEU-28	PHM		T	34	122	5	S1	20	1800	100	2	6	10				11	
FEU-29	SCC		T	48	195	9	S4	30	2300	200	3	8	10	1400	L	CAM	13	7
FEU-30	PHM		T	67	210	20	S2	40	3500		1	4	10K	3500			14	
FEU-31	PHM		T	22	79	10	S4	20	1400	75	5	7	10	1300	L		8	
FEU-32	PHM		T	34	123	5	S10	25	1800	200	1	8	1		L	AMK	11	6
FEU-33	SCC		T	48	195	9	S4	30	2900		1	6	100	2100	L		13	7
FEU-34	PHM					9	S13	30	2700		1	5	1000		L		13	

GROUP XVI, PHOTO AND PHOTOMULTIPLIER TUBES

TYPE NUMBER	KIND	TYPE	BULB DIMEN			CATHODE			MAXIMUM			OUTPUT SENS		DYNODES			AMPLIFICATION
			SHAPE	DIAM mm	LGTH mm	AREA cm^2	SURF	SENS $\frac{\mu A}{lm}$	E_b V	I_k μA	DARK I Amp	DARK I (-) Exp	MIN Amp/L	OPR E_b V	DESIGN	MAT'L	NO	
FEU-35	SCC		T	31	113	5	S4	30	1750		4	9	10	1100	L		8	
FEU-36	PHM			48	195	12	S4	30	2900	200	2	5	1000	2900	L		13	
FEU-37	PHM			48	178	9	S4	30	2000	200	5	6	1000	2000	L		11	
FEU-38	PHM			48	200	9	S5	90	2000	200	1	7	100		L		13	
FEU-39	PHM			48	178	9	S4	25	1800		1	6	1000	1800	L		11	
FEU-40	NSP		T	20	91		S13	30	1900		5	7	1				8	
FEU-42	NSP		T	48	205		S13	30	2200		1	7	1	1800			11	
FEU-43	NSP		T	80	290		S13	30	2200		1	7	1	1800			11	
FEU-44	NSP		B	150	310		S13	30	2200		1	7	1	1800			11	
FEU-45	NSP		B	200	340		S13	30	2200		1	7	1	1800			11	
FEU-46	NSP		T	48	130		S13	30	1800		1	10	1	1800			10	
FEU-47	NSP		T	48	169		S13	30	2500		1	7	1	2300			10	
FEU-48	NSP		T	80	230		S13	30	2500		1	7	1	2300			10	
FEU-49	PHM		B	170	220	170	S5	50	3500		1	8	10	1800			12	
FEU-50	PHM		T	89	360	23	S2	20					1000				13	
FEU-51	PHM		T	34	110	5	S5			100	3	7	100	2300			11	
FEU-52	PHM		B	80	125	45	S5	50	3000	10M	5	8	10	1700	V	CAM	12	7
FEU-53	PHM		T	51	117	16	S4	25	2500	10M	4	7	2000	1700	V	CAM	14	7
FEU-54	PHM		T	22	90		S4			500	8	7			V		14	
FEU-55	PHM		T	22	90	2	S10	20		500	8	7			V		14	
FEU-56	PHM		B	80	120	15	S4	30		10M	1	7			V		12	
FEU-58	PHM		T	22	90	20	S4	15		500	4	7	25		V		14	
FEU-59	PHM		T	51	107	15	S2	20		10M	2	5	20		V		14	
FEU-60	PHM		T	15	70	/1	S4	20			3	8	30	1600			10	
FEU-62	PHM		T	34	86	/1	S1	15		100	6	7	10	1800			11	
FEU-64	PHM		T	48	170	/1	S4	25		100	5	8	1000	1500			11	
FEU-67	PHM		T	22	76	/1	S2	20			5	9	3	1250			8	
FEU-70	PHM		T	34	125		S10	50	1800		6	8	100					
FEU-81	PHM		T	52	122		S10	50	1800		8	8	100					
FEU-82	PHM		T	80	152		S10	50	1800		2	8	100					
FEU-R3	PHM		T	47	109	2	S13	90	1400		1	10			C		10	
FEU-R5	PHM		T	47	109	2	S13	90	1400		1	7	1		C		10	
STSV-3	PHO	VC	G	27	62		S2	80	240		1	8	1					
STSV-4	PHO	VC	G	39	129		S2	80	240		1	7	1					
STSV-6	PHO	VC	T	27	104		S1		30		5	11						
STSV51	PHO	VC	G	30	63		S2	80	240		1	8						
TSG-1	PHO	GS	G	56	131		S1	75	240		1	7	1					
TSG-3	PHO	GS	G	27	62		S1	100	240		1	7	1					
TSG-4	PHO	GS	G	39	129		S1	100	240		1	7	1					
TSV-1	PHM	VC	G	56	131		S1	20	240		1	7	1					
TSV-3	PHO	VC	G	27	62		S1	20	240		1	7	1					
TSV-4	PHO	VC	G	39	129		S1	20	240		1	7	1					
TSV-6	PHO	VC	T	27	104		S1		30		5	11						

GROUP XVIII, THERMOCOUPLE

TYPE NUMBER	KIND	DIMENSIONS DIAM mm	DIMENSIONS LENGTH mm	TYPICAL I_H mA	TYPICAL THERMO ELEC. mV	RESPONSE s	f_{max} MHz
TV-2	THM	13	23	100	30	3S	5
TV-4	THM	13	23	50	30	3S	S
TV-S	THM	13	23	7S	30	3S	S
TV-14	THM	13	23	2S0	30	1S	5
TV-1S	THM	1S	20	500	30	3S	S
TV-16	THM	1S	20	1000	30	3S	5
TVB-1	THM	20	30	1	/3	40	200
TVB-2	THM	20	30	3	5	40	200
TVB-3	THM	20	30	S	10	40	200
TVB-4	THM	20	30	10	12	40	200
TVB-S	THM	20	30	30	12	40	200
TVB-6	THM	20	30	30	12	40	200
TVB-7	THM	20	30	100	12	40	200
TVB-8	THM	20	30	300	12	40	200
TVB-9	THM	20	30	500	12	40	200

GROUP XIX, THERMISTORS

TYPE NUMBER	KIND	USE	DIMEN LTH mm	DIMEN DIAM mm	SHAPE	RESISTANCE MIN Ω	RESISTANCE MAX Ω	RESISTANCE T.C. %	TEMP. MIN (−)°C	TEMP. MAX (+)°C	POWER MIN mW	POWER MAX mW	SENS $\frac{\Omega}{mW}$
TDS-M	TMS	CON	6	3	DSC		6K	3.0		180		S0	
KMT-1	TMS	MEA	13	'4	CYL	20K	1M	S.1	20	180		8H	
MMT-1	TMS	MEA	13	'4	CYL	1	200	2.9	70	120		4H	
ST1-17	TMS	MEA				300	22K	7.0	60	100		5H	
ST1-18			'1			/2	2200	S.0	60	300		4S	
ST1-19	TMS	MEA				3	2200	4.0	60	300		60	
ST1-21	TMS					10K	100K		60	85		60	
ST-1-21	TMS		48	12	CYL	33	100		60	85		60	
ST-1-30	TMS		60	6	CYL	200	33K		60	8S			
TKI-1	TMS	MEA	S	5	CYL	S	40	0.4	40	70			
TSH-1	TMS	MEA					12S	3.4			7.0	11	
TST-1A	TMS	REG	6	18		4	20	1.4				40	
ST-2-26	TMS					1K	100K	3.0	60	125			
TKI-2	TMS	MEA	5	5	CYL	10	1000	2.6	40	70			
TP-2/0.S	REG	TMS			1	3	0.2	2.0		/1	1		
TP-2/2	REG	TMS			1	3	0.4	6.0		/1	1		
TSH-2	TMS	MEA					1S0	3.4			13.5	18	
ST3-17	TMS	MEA				33	340	4.5	60	100		5H	
ST3-18			/1			/1	3	4.1	90	12S		1S	
ST3-19	TMS	MEA				2	1S	4.S	90	12S		4S	
ST-3-21	TMS					680	1SK		60	8S		60	
ST-3-22	TMS			40	CYL		1K	3.S	60	8S	6.0	12	
ST3-23	TMS	COM				2	S	3.7	0	12S		5H	
ST-3-24	TMS		/1		DSC	680	33H	3.0	60	8S			
ST-3-2S	TMS		/1		DSC	15H	33H	3.3	100	12S	0.1	8	
ST-3-26	TMS					100	680	3.0	60	125			
TKI-3	TMS	MEA	5	5	CYL	10	20K	2.8	40	70			
KMT-4	TMS	MEA	24	7	CYL	20K	1M	S.1	20	180		8H	
MMT-4	TMS	MEA	24	7	CYL	1	200	2.9	70	120			
ST-4-15	TMS	MEA	/2	10		1S00	1800	3.6	60	180		10	
MMT-5	TMS	MEA	S	14	CYL	1K	200K	2.9	70	120		4H	
MMT-6	TMS					10	1000	2.9	70	120		S0	
TP-6/2	REG	TMS			4	8	0.4	6.0		/1	1		
KMT-8	TMS					100	10K	4.6	40	60			
MMT-8	TMS	COM	22	23	DSC	1	1000	2.9	40	60		10	
T8D	TMS	POW	8	3	CYL	150					10	15	20
T8E	TMS	POW	8	3	CYL	150					7	10	30
T8M	TMS	POW	8	3	CYL	200					9	11	66
T8R	TMS	POW	8	3	CYL	12S					7	12	10
T8S1	TMS	POW	8	3	CYL	120					9.5	24	10
T8S1M	TMS	POW	8	3	CYL	120					9.S	24	10
T8S2	TMS	POW	8	3	CYL	150					8	19	12
T8S2M	TMS	POW	8	3	CYL	150					8	19	12
T8S3	TMS	POW	8	3	CYL	1S0					7	23	10
T8S3M	TMS	POW	8	3	CYL	150					7	23	10
MMT-9	TMS	COM	/3	19	DSC	10	S000	2.9	60	120		10	
T9	TMS	POW	8	3	CYL	12S					7	19	10
KMT10	TMS	CON	30	6	CYL	100K	3M	S.1	0	120		2H	
KMT-11	TMS	CON	/4	/1	CYL	100K	3M	5.1	0	120		2H	
KMT-12	TMS					100	10K	4.6	40	120			
MMT-12	TMS					5	5K	2.9	40	120		3	
MMT-13	TMS		9		DSC	10	2200	2.9	60	12S	0.3		
KMT-14	TMS	MEA	4	80	CYL	S10	7S00	4.5		300		1H	
KMT-17	TMS		S		DSC	300	20K	4.2	60	1S5	0.1	SH	
TKP-20	TMS	POW	33	68			S00	2.0				2H	
TKP-50A	TMS	POW	33	68			2000	2.3				2H	
TKP-S0B	TMS	POW	33	68			750	2.3				2H	
TKP-300	TMS	POW	33	68			10K	3.5				20	

GROUP XX, STROBOTRONS

TYPE NUMBER	DIMENSIONS			VOLTAGE			POWER		INTER RES	FLASH CONDITIONS				LIGHT OUTPUT			LIFE	
	SHAPE	DIAM mm	LTH mm	MIN DROP V	OPER V	FIRING V	AVG W	PEAK kW	Ω	DISCHG CAP pF	TIME μs	FLASH FREQ pps	ENERGY j	FLASH cd/s	AVG cd	PEAK cd	NO.OF FLSH	HRS
IFB300	R	8	85	240	300	1500	40	36	2.5	65H	8K	0.13	300	500		60K	10K	
IFK15-1	T	29	60		300		3	90	1.5	800	400	0.1	36	36		9K	2K	
IFK20	T	4	10	100	130	700	2	100	1.6	25H	200	0.1	20	20		100K	10K	
IFK50	T	4	20	140	200	1K	5	125	0.3	25H	400	0.1	50	70		180K	10K	
IFK120	U	5	30	180	300	1K	12	120	0.8	25H	1K	0.1	120	250		250K	10K	
IFK500	P	30	45	400	500	3500	30	65	4.0	4K	8K	0.05	500	1000		130K	10K	
IFK2000	U	9	70	250	320	2K	300	200	4.5	8K	2K	0.7	400	1200		600K	40K	
IFK20000	G	85		2K	6K	20K	55H	10M	3.5	550	11H	0.55	10K	34K		30M	7K	
IFK80000	G	1H		3K	6K	20K	18K	13M	2.5	39H	5K	0.25	70K	240K		36M	5K	
IFP200	T	5	200	450	500	2K	27	140	2.0	16H	16H	0.13	200	400		250K	10K	
IFP500	T	5	350	450	500	3K	65	70	3.5	4K	7K	0.13	500	1000		140K	10K	
IFP1500	T	5	600	900	1K	4K	100	160	6.0	3K	9K	0.06	15H	4000		450K	10K	
IFP4000	T	6	800	1300	1400	5K	270	250	8.0	4K	16K	0.06	4K	12K		750K	10K	
IFP15000	T	9	600	1600	2400	5K	1250	3300	1.8	5K	45H	0.08	15K	50K		11M	10K	
ISK10	U	5	30	180	300	1000	10	3	0.8	1.0	15	200	/0.1	7U	15	500		50
ISK25	U	5	20	250	300	1000	20	130	0.4	450	150	1	20	40		30K		30
ISP10	T	1	62	700	1000	3000	10	6	30	0.2	18	100	0.1	50U	5	3K		500
ISP70	T	0.5	70	900	1200	3000	70	10	1H	0.2	18	400	0.2	100U	40	6K		100
IS-SH15	T	1	2	250	1000	1200	1	20		20	15		10	5		300K	1	5K
IS-SH100-1	T	0.7	2	2200	3000	3500		4000		11	15		50	50		3M	1	2
IS-SH100-3	T	2	5	2500	3500	6K	150	1000		0.5	2	50	3	2	100	600K		5
IS-SH500	T	1.2	8	5K	9K	15K	500	1000		0.12	6	100	5	5	500	1M	1	1
IST10	U	5	30	180	300	1000	10	50	0.8	220	200	1	10	8		40K		50

GROUP XXI, COUNTERS

TYPE NUMBER	KIND	RADIATION	QUENCHING	CATHODE	DIMENSIONS		PLATEAU		MAXIMUM			TEMP		CAP	MIN R_I	
					LTH	DIAM	MIN	MAX	RATE	PLATEAU		MIN	MAX			
										WIDTH	SCOPE					
					mm	mm	V	V	10^3/min	V	% V	(−)°C	(+)°C	PF	MΩ	
AS-1	COU	BAG			132	18	830	940		80	0.2	0	35			
SFK-1	COU	UV		CU	177	32	1100	1350	3	200		10	40			
AS-2	COU	BAG		AL	160	25	750	860		100	0.15	0	35			
GS-4	COU	GAM	SQ	GR	180	23	1250	1450		200	0.1			25	8	
GS-6	COU	GAM	SQ	GR	266	23	1250	1450		200	0.1			25	8	
GS-7	COU	GAM	SQ	GR	145	16	1200	1300		150	0.1			25	30	
GS-8	COU	GAM	SQ	GR	185	16	1200	1300		150	0.1			25	30	
GS-9	COU	GAM	SQ	GR	367	33	1250	1450		250	0.1			25	8	
GS-10	COU	GAM	SQ	GR	225	16	1250	1450		150	0.1			25	30	
GS-11	COU	GAM	SQ	GR	185	33	1250	1450		200	0.1			25	8	
GS-12	COU	GAM	SQ	GR	145	16	1200	1300		150	0.1			25	30	
GS-30	COU	GAM	SQ	GR	662	33	1250	1450		150	0.1			25	8	
GS-60	COU	GAM	SQ	GR	667	63	1250	1450		150	0.1			25	8	
MS-4	COU	GAM	SQ	CU	180	23	820	880	65	200	0.1	40	50	25	8	
MS-6	COU	GAM	SQ	CU	266	23	820	880	20	200	0.1	40	50	25	8	
MS-7	COU	GAM	SQ	CU	145	16	800	860	28	100	0.15	25	50	25	30	
MS-8	COU	GAM	SQ	CU	185	16	800	860	55	100	0.15	25	50	25	30	
MS-9	COU	GAM	SQ	CU	367	33	870	930	280	250	0.10	40	50	25	8	
MS-11	COU	GAM	SQ	CU	185	33	870	930	105	200	0.10	40	50	25	8	
MS-12	COU	GAM	SQ	CU	145	16	790	850	15	100	0.15	25	50	25	30	
MS-13	COU	GAM	SQ	CU	100	23	870	930	30	200	0.15	40	50	25	8	5
MS-14	COU	GAM	SQ	CU	160	23	870	930	70	200	0.15	40	50	25	8	
MS-16	COU	GAM	SQ	CU	250	23	870	930	120	200	0.10	40	50	25	8	
MST-17	COU	BET	SQ	CU	100	40	1600		10	150	0.05	30	50	10	7	6
MST-18	COU	BET	SQ	CU	90	40	1650		10	150	0.03	20	40	10	7	
MSTR-4	COU	BET	SQ	CU	180	40	1350		25	200	0.05	5	35	25	8	7
SAT-7	COU	ALP		NI	70	44	330	400		60	0.12	40	50			
SAT-8	COU	AAB			48	15	500	1000		300	0.03	40	50			
SBM-7	COU	BET	SQ	SS	335	26	800	2400		200	0.05		50			
SBM-8	COU	BET	SQ	SS	335	26	800	2400		200	0.05		50			
SBS-1	COU	BAG	SQ	SN	125	14	800	1200	2	150	0.03	50	50			
SBS-4	COU	BET	SQ	GR	362	23	800	1200	2	150	0.03	50	50			
SBS-5	COU	BET	SQ	GR	255	23	800	1200	2	150	0.03	50	50			
SBT-3	COU	AAB			93	50	1800	2100		150	0.05	30	50			
SBT-7	COU	BET		SS	72	20	320	420		80	0.12	40	50			
SBT-8	COU	AAB		CU	75	20	1100	1700		150	0.03	30	30			
SBT-9	COU	BET	SQ	SS	72	11	320	420		80		30	50			
SBT-10	COU	AAB		LD	88	51	340	460		80		30	50			
SGS-5	COU	GAM	SQ	SS	60	8	320	440	2K	60	0.25	50	50			
SGS-6	COU	GAM	SQ	SS	90	8	340	440		80	0.15	40	80			
SI-1BG	COU	BAG	SQ	NI	60	15	375	410		35		40	50	5	/1	
SI-2B	COU	BET	SQ	SN	90	70	1350	1750	8	150	0.05	30	50	10	7	
SI-2BG	COU	BAG	SQ	NI	60	15	375	410		35		40	50	5	3	
SI-3BG	COU	BAG	SQ	NC	60	10	380	460		80	0.25	40	50			
SI-4BG	COU	BAG	SQ	NI	60	14	380	460		80	0.25	40	50			

GROUP XXI, COUNTERS

TYPE NUMBER	KIND	RADIATION	QUENCHING	CATHODE	DIMENSIONS		PLATEAU		MAXIMUM			TEMP		CAP	MIN R_I
					LTH	DIAM	MIN	MAX	RATE	PLATEAU		MIN	MAX		
										WIDTH	SCOPE				
					mm	mm	v	v	10^3/min	V	% V	(−)°C	(+)°C	pf	MΩ
SI-9BG	COU	BAG	SQ	FE	25	10				60	0.15	40	50		
SI-10BG	COU	BAG	SQ	NI	76	17	375	400		80	0.25	40	50		
SI-11BG	COU	BAG	SQ	NI	75	17	375	400		80	0.25	40	50		
SI-12BG	COU	BAG	SQ	FE	73	12		900		80	0.2	50	100		
SI-13G	COU	GAM	SQ	NI	66	10	290	330		80	0.25	50	60		
SI-19G	COU	GAM	SQ	FE	94	11	280	320		100	0.13	40	50		
SI-20G	COU	GAM	SQ	FE	180	19	285	335		100	0.13	40	50		
SI-21G	COU	GAM	SQ	FE	265	19	285	335		100	0.13	40	50		
SI-22G	COU	GAM	SQ	FE	220	19	285	335		100	0.13	40	50		
SNM-3	COU	NEU	SQ	SS	135	18	700	1000		100	0.05	0	30		
SNM-5	COU	NEU	SQ	SS	300	35	1200	1800		100	0.05	20	30		
SNM-7	COU	NEU	SQ	SS	650	35	1800	2500		100	0.05	0	30		
SNM-8	COU	NEU	SQ	SS	10H	35	1700	2000		150	0.05	0	30		
SNM-9	COU	NEU	SQ	SS	133	20	1000	1600		400	0.05	0	50		
STS-1	COU	GAM	SQ	FE	94	16	280	320	60	80	0.12	40	50	10	5
STS-2	COU	GAM	SQ	FE	180	24	285	335	40	80	0.12	40	50	10	5
STS-3	COU	GAM	SQ	FE	265	23	285	335	30	80	0.12	40	50	10	5
STS-5	COU	BET	SQ	FE	113	12	285	335	200	80	0.12	40	50	10	5
STS-6	COU	BET	SQ	FE	200	22	285	335	60	80	0.12	40	50	10	5
STS-8	COU	GAM	SQ	FE	220	23	285	335	40	80	0.12	40	50	10	5
T20BFL	COU	AAB			7	20	1200	1300		300	0.01	20	40		
T25BFL	COU	AAB			7	25	1300	1400		300	0.01	20	40		
T30BFL	COU	AAB			7	30	1400	1500		300	0.01	20	40		
T40BFL	COU	AAB			7	40	1500	1600		300	0.01	20	40		
T50BFL	COU	AAB			7	50	1500	1600		300	0.01	20	40		
T60BFL	COU	AAB			7	60	1900	2000		300	0.01	20	40		
T80BFL	COU	AAB			80	90	2000	2100		300	0.01	20	40		
VS-4	COU	GAM	SQ	W	180	23	720	800	25	200	0.07	40	50	25	8
VS-6	COU	GAM	SQ	W	266	23	720	800	25	200	0.07	40	50	25	8
VS-8	COU	GAM	SQ	W	185	16	720	800	25	150	0.07	40	50	25	30
VS-9	COU	GAM	SQ	W	367	33	720	800	25	250	0.07	40	50	25	8
VS-9T	COU	GAM	SQ	W	367	33	720	800	25	200	0.1	40	150	25	8
VS-11	COU	GAM	SQ	W	185	33	720	800	25	200	0.07	40	50	25	8
VS-13	COU	GAM	SQ	W	100	23	720	800	25	150	0.07	40	50	25	8
VS-14	COU	GAM	SQ	W	160	23	720	800	25	200	0.07	40	50	25	8
VS-16	COU	GAM	SQ	W	250	23	720	800	25	200	0.07	40	50	25	8

GROUP XXII, DISCHARGE DIODES

TYPE NUMBER	DIMEN LTH mm	DIMEN DIAM mm	GAS	CATH TYPE	CATH KIND	FIRING MIN V	FIRING MAX V	PULSE I-amp J-joule	PULSE TIME s	PULSE OPERATING FREQUENCY pps	MIN INTER RES MΩ	MAX CAP pF	AMB.TEMP MIN (−)°C	AMB.TEMP MAX (+)°C
R-1	16	24		C			2K			10			60	100
R-2	17	16.5		C		1300	2K			600	20		50	80
R2M	12	16		C			2K			10			60	200
R-3	70	21.5		C	BAO		600	140	12U	300	100	1	60	70
R-4				C	BAO		75							
R-5	41	22		C	BAO	160	250				100			
R-6	110	55				800				200 M	100			
R-7	45	18	HK	C	BAO	270	330			2	20	10	60	100
R-8	50	20	HK	C	BAO	450	550			2	20	10	60	100
R-9	55	20	HK	C	BAO	900	1100			2	20	10	60	100
R-10	55	20	HK	C	BAO	1375	1725			2	20	40	60	100
R-11	132	35		C	NI	2250	2750	2HU						
R-12	30	12	AR	C	K	145	175	20	1U		1000			
R-18	36	14	AR	C	K			3KJ					60	70
R-21	100	20				1100	2000	500	30U					
R-24	100	20				2000	6000	300	1HU					
R-54						7200	9800							
R-350	62	20	AR	C	BA	310	390	3	2	0.002	5K	10	50	50
R-450	62	20	AR	C	BA	440	480	3	2	0.002	5K	10	50	50
RB-1	52	19		C	BA	150	190				400			
RB-2	25	19		C	BA		220	50	15U	50	100	/1	60	70
RB-3	41	22		C	BA	220	235	30	1HU	7	100		60	70
RB-5	60	16		C	BA	340	460	10J		1	200		60	70
RB-5A	60	16		C	BA	370	510	/1J		8			60	50
RB-90	62	17.5	NA	C	BA	80	100	30M	2	0.005	100	100	60	70
RB-280	210	95	AR	C	BA	250	310	30	10	0.002	40	20	60	70
RB-350	210	95	AR	C	BA	310	390	30	10	0.002	40	20	60	70
RB-430	210	95	AR	C	BA	390	470	30	10	0.002	40	20	60	70
SK-127	37	20	NA		MG		72	1	20	1				
SK-220	37	20	HE				140	/1	20	1				
43780	62	17		C	BA		100					100	60	70

GROUP XXIII, DECATRONS

TYPE NUMBER	KIND	VOLTAGES MAXIMUM E_b V	FIRING V	BIAS V	DRP V	TYPICAL OPER V	TYPICAL $K_1 K_2$ V	TYP I_b mA	PULSE TYP TIME μs	PULSE MAX RATE KHz	DIMEN LTH mm	DIMEN DIA mm
IN-1	DEC	250						2.5			65	30
OG-1	DEC	450	300	150	15	150	50	1.3	40	8	77	34
TNI-1.5	DEC	160				90		1.5			35	10
IN-2	DEC	250	200					2.0			35	19
OG-2	DEC	450	300	150	15	150	50	1.3	60	3	77	34
OG-3	DEC	460	420	120	15	190	40	0.7	18	20	83	34
OG-4	DEC	450	375	200	15	125	35	0.5	160		76	30
OG-5	DEC	400	350	120	20	175	60	1.3	35	10	74	34
A101	DEC	450	375	150		125	40	0.5	200		75	34

GROUP XXIV, LIGHT AMPLIFIERS

TYPE NUMBER	KIND	K	SCRN COLOR	MAX DIMEN K mm	MAX DIMEN SCREEN mm	MAX DIMEN SCREEN mm	AMP μ	TYP E_b V	RESOL 10^{-X}	RESOL LINE PER mm
LIM-3	LAM	CSb	VB	15	65	20	2	18	8	70
LIM-4	LAM	CSb	VB	15	135	40	4	18	9	70

GROUP XXV, BASES

BASE NO.	SECTION 1										SECTION 2								SEC. 4			DEFLECTION 1				DEFLECTION 2			
	H	H	K	g_1	g_2	g_3	g_4	g_5	A	Sh	H	H	K	g_1	g_2	g_3	A	A_3	K	A	A_5	D_1	D_2	D_3	D_4	D_1	D_2	D_3	D_4
A4	2	4	3	1					CP																				
A7	1	7	6	5					2								3	CP											
A8	2	8	7	5					3								CP												
A9	2	7	6	4					CP																				
A12	1	12	2	3					8								4					6	9	10	7				
A14	1	14	2	3					9								5	CP				CP	CP	CP	CP				
A20	1	20	3	5	16				11								CP					CP	CP	CP	CP				
A25	1	25	2	24	6				23		13	14		12			11					20	5	4	21	17	9	8	18
B7	3	4	2	5	7				6								CP												
BT7	1	7	4	2	3				CP					6			CP												
B8	1	8	3	6					CP																				
B9	3	9	1	8					6																				
B12	1	12	11	2	10				6								CP												
B14	1	14	2	3					9								5	CP		CP	CP	10	7	8	11				
C8	1	8	7	2	6				4								CP												
C14	1	14	13	12	CP				CP																				
D8	2	8	6	4					CP																				
D9	4	5	CP						1																				
D10	1	5							2																				
D12	1	3	2						CP																				
D13			2						6																				
D14	1	14	2	3	4				5								CP	CP		CP	CP	CP	CP	CP	CP				
DS1	4	5	5						CP																				
DS2	2	7	2						CP																				
DS3	1	5	5						CP																				
DS4	2	7							4																				
DS5	1	2	1						CP																				
DS6	2	5									5	7																	
DS7	1	3																											
DS8	7	8	3						1																				
DS9	1	2	CP						CP																				
DT7	1	3	1						CP																				
DW1	2	8							4								6												
DW2	1	2	8						4								5												
DW3	1	8	3						2	4							6												
DW4	2	8	8						4								6												
DW5	2	6	3						1	4							7												
DW6	3	4	5						7								1												
DW7	2	7	8						3								5												
DW8	1	3	2						4								5												

GROUP XXV, BASES

BASE NO.	SECTION 1										SECTION 2							A_3	SEC. 4		A_5	DEFLECTION 1				DEFLECTION 2			
BN9	H5	H4	K1	g_1	g_2	g_3	g_4	g_5	A7	Sh	H	H	K	g_1	g_2	g_3	A		K	A		D_1	D_2	D_3	D_4	D_1	D_2	D_3	D_4
F8	1	8	7	6	3				5																			
G8	1	8		6					CP																			
ID1	4	5	2	1					7								3											
ID2	4	5	3	1					7								2											
ID3	4	5	7	8					1					6			3	9										
P1S	4	5	3	2	9	1			7	1																		
P3S	1	7	8	6	3	4			2	5																		
P4S	1	7		4	6	1			CP																			
P5S	1	8		2	3	5			6	7																		
P6S	1	2		3	4	6			CP																			
P7S	1	7		4	3	5			6																			
P8S	4	5		3	1	6			7																			
P9S	4	8	1	2	3	5			6	7																		
P10	2	7	8	CP	4	1			CP																			
P11	1	2		3	CP	6			CP																			
P12	1	6		4	3	5			CP																			
P13	1	7		4	3	5			CP																			
P14	2	7		5	3	4			CP																			
P15	1	6	7	CP	3	5			CP																			
P17	4	5	3	9	1	8			6																			
P18	8	9	3	5	2	4			1																			
P19	2	7		4	5	3			CP																			
P20	4	5	1	2	8	9			7																			
P21	4	5	3	1	6	3			CP																			
P22	2	6	1	7	3	8			4																			
P23	2	7	3	5	8	3			1																			
P24	4	9	1	7	2	1			10																			
P25	4	5	9	1	7	2	8		3																			
P26	4	9	1	10	6	1			3																			
P27	2	6	3	4	5	3			1																			
P28	2	4	6	7	1	6			3																			
P29	3	4	6	7	2	5			1																			
P30	3	6	4	1	7	4			5																			
P31	4	5	7	1	2	8			6																			
P32	4	5	9	6	7	1			3																			
P33	4	5	1	2	9	8			7	8																		
P34	4	5	6	7	3	8	2		1																			
P35	4	5	3	2	8	9	1	3	6								7											
P36	4	9	1	10	6	7			3																			

GROUP XXV, BASES

BASE NO.	SECTION 1										SECTION 2								SEC. 4			DEFLECTION 1				DEFLECTION 2			
	H	H	K	g_1	g_2	g_3	g_4	g_5	A	Sh	H	H'	K	g_1	g_2	g_3	A	A_3	K	A	A_5	D_1	D_2	D_3	D_4	D_1	D_2	D_3	D_4
P37	4	5	6	8	1	7	3	2	9																				
P38	4	5		7	2	1			CP																				
P39	3	7	4	CP	5	2			1																				
PD3	4	5	1	2	9	7			6								8												
PD5	2	7	1	5	4	1			3								6							CP					
PD6	2	7	8	CP	6	1			3								4	5											
PD7	4	5	2	1	7	2			6					3		2	8												
PD8	6	8	3	1	2	3			CP					5		3	CP												
PD9	4	5	6	7	3	6			1								9												
PS1	1	8	6	7	5	2			3	4																			
PS2	1	7		6	3	4			2	5																			
PS3	1	8		7	5	4			3	2																			
PS4	4	5		3	7	1			CP	2																			
PS5	4	5	6	7	3	2			1								9												
PS6	1	7		4	6	2			CP																				
PS7	2	7	8	5	4	8			CP																				
PS8	2	7		4	5				CP																				
PS9	4	5	3	7	2	3			1																				
PT1	3	5		2	1	6			4		5	7		8			9												
PT2	7	8	6	CP	3	6			2					5			4												
PT3	2	7	8	1	4	8			6					5			3												
PT4	4	5	7	8	9	7			6	7				1			2												
PT5	4	5	2	3	7	2			6	2				1			9												
PT6	4	5	8	9	7	8			6					2			1												
PT7	4	5	7	6	8	7			3	7				1			9												
T1E	4	5	1	2	9				7	8																			
T1S	1	4		3					CP																				
T2E	4	5	1	8	CP				9						C		3												
T2S	4	5	1	2					7																				
T3S	1	4	5	3					2																				
T4S	4	5	1	8					CP																				
T10	2	6		5					7																				
T11	1	7	2	4					CP																				
T12	3	7	4	2					1																				
T13	2	7	1	8					5																				
T14	5	10	1	3					7																				
T15	4	5	1	9					CP																				
T16	1	7	3	5					4																				
T17	1	6	3	7					2																				
T19	3	8	2	4					1	5				9			6												

GROUP XXV, BASES

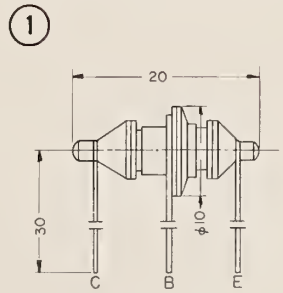
BASE NO.	SECTION 1										SECTION 2							A_3	SEC. 4		A_5	DEFLECTION 1				DEFLECTION 2			
	H	H	K	g_1	g_2	g_3	g_4	g_5	A	Sh	H	H	K	g_1	g_2	g_3	A		K	A		D_1	D_2	D_3	D_4	D_1	D_2	D_3	D_4
T20	3	9	1	2	4				5	6				8	1		11												
T21	5	10	1	3					4	2				8			9												
T22	3	4	2	5	1				6																				
T23	3	4	2	1					6																				
T24			1	4					CP																				
T25	4	8	2	5					1																				
T26	4	8	6	3					1																				
T27	4	8	6	1					3																				
T28	5	7	1	3					6																				
TD1	4	8	6	7					1					3			5												
TD3	2	7	8	CP					3								4	5											
TD6	3	8	2	4					1					9			6												
TE1	1	6	4	8	5				2																				
TE2	1	7		2	CP				4																				
TE3	4	5		8	2				3						C		9												
TE4	1	3		2	4				CP																				
TE5	1	3		4	2				CP																				
TE6	2	7		5	4				CP																				
TE7	1	7	7	3	6				CP																				
TE8	1	2	5	6	9				CP																				
TE9	4	5	1	9	8				CP																				
TS1	1	7		5					2																				
TS2	2	3		4					1																				
TS3	1	3	2	6					4																				
TS4	4	5	3	2					9																				
TS5	2	7	8	CP					CP																				
TS6	2	6	3	5					4																				
TS7	4	5	9	2					1																				
TS8	2	7	1	5					CP	3																			
TS9	2	7		CP					CP																				
TT1	4	5	7	8					9								1	6	3	2									
4AC	2	7	7						CP																				
4AJ			2						5	3																			
4BE	2	7	8	CP					CP																				
4BQ	2	7	8						3																				
4D	1	4		3					2																				
4F	1	3		4					2																				
4G	1	4	3						2																				
4T2	1	2		4					CP																				
5AA	2	7	8						5																				

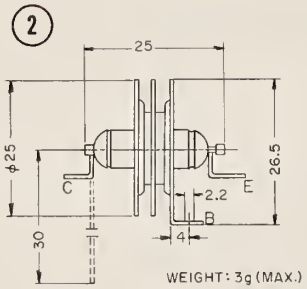
GROUP XXV, BASES

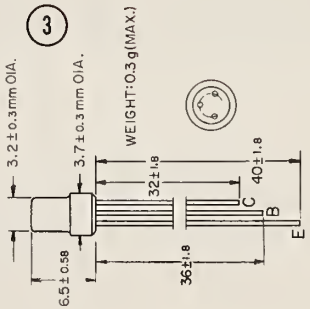
BASE NO.	SECTION 1										SECTION 2								SEC. 4			DEFLECTION 1				DEFLECTION 2			
	H	H	K	g_1	g_2	g_3	g_4	g_5	A	Sh	H	H	K	g_1	g_2	g_3	A	A_3	K	A	A_5	D_1	D_2	D_3	D_4	D_1	D_2	D_3	D_4
5AW	1	5	4	3	2	4			CP																				
5BT	2	7	3	5	8	3			CP																				
5CL	3	5		4	2	5			1																				
5F	1	5	4	CP	3	4			2																				
5M	2	7	8	CP					4																				
5S	2	7		5					3																				
5Y	2	7		CP	4	7			3																				
6AR	1	7		6	3	5			2																				
6AU	1	7		6	4	1			5									3											
6PT	3	4	5						2	6							7												
6BY	2	7	3	CP					CP																				
6CC	3	4	2	1	6	2			5																				
6F	1	6	5	CP	3	4			2																				
6Q	2	7	8	5					3	1																			
6X	2	7		5	4	7			3																				
7AB	2	7		4					3					5			6												
7AT	1	7		4	3	6	3	1	2																				
7AV	1	7		3	4	5			1																				
7BA	1	7		3	4	5			2																				
7BD	3	4	2	1	6	7			5																				
7BF	3	4	7	5					2					6			1												
7BK	3	4	7	1	6	2			5																				
7BP	1	7	4	2	3	4			CP					6		4	CP												
7BQ	3	4	2	1					7																				
7BS	3	4	2	6					1																				
7CH	3	4	2	1	6	7	6	2	5																				
7CM	3	4	2	1	6	7			5																				
7DF	3	4	1	2	5	6			7																				
7DN			2						1																				
7EM	3	4	2	1	5				6																				
7R	2	7	8	CP	4	5			3																				
7S	2	7	8	5	4	8			3																				
7T	2	7	8	CP	4	5	4	8	3																				
7Z	2	7		5	6	4	CP	4	3																				
8A	2	7	8	5	6	4	CP	4	3																				

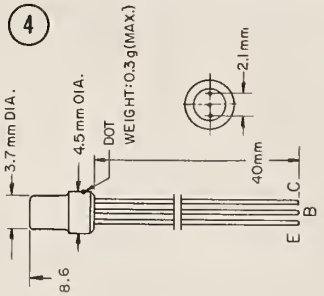
GROUP XXV, BASES

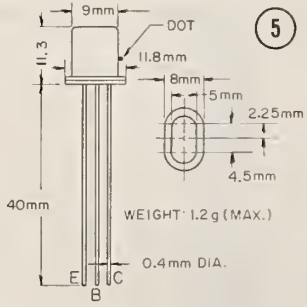
BASE NO.	SECTION 1										SECTION 2								SEC. 4			DEFLECTION 1				DEFLECTION 2			
	H	H	K	g_1	g_2	g_3	g_4	g_5	A	Sh	H	H	K	g_1	g_2	g_3	A	A_3	K	A	A_5	D_1	D_2	D_3	D_4	D_1	D_2	D_3	D_4
8AN	2	7	4						3	1							5												
8B	2	7	8	4					3					5			6												
8BD	7	8	3	1					2					4			5												
8BE	7	8	2	1					3					5			6												
8BK	2	7	3	4	6	3			8																				
8CJ	1	9	2	3					4	5				7			6												
8E	2	7	8	CP	6	8			3								4	5											
8ES	2	7																											
8HC	2	7							CP																				
8N	2	7	5	4	6	3			8																				
8O	7	8	3	2					6								4	5											
8R	2	7	6	5	4	8	4	1	3																				
8S	7	8	6	3					2					4			5												
8T1	3	4	2	1	5				7																				
8T2	2	7	8	5	6				3																				
8T3	2	7	8	5					3																				
8Y	2	7	5	4	6	1			8																				
9AE	4	5	7	2	3	7			6					9			1												
9AJ	4	5	3	2					1	9				7			6												
9BD	4	5	CP						2																				
9CA	4	5	3	2	1	7	1	3	6					9			8												
9CB	4	5	CP						9																				
9CV	4	5	3	2	9	3			7																				
9DD	4	5	1	2					3					6			9												
9EQ	4	5	1	2	9	8			7																				
10T	1	10	5	2	6				8																				
11L	1	11	2	10					7								4					3	6	9	8				
14A	1	14	2	3					4								9									10	11	7	8
14G	1	14	2	3					9								5					11	7	8	10				
14J	1	14	2	3					9								5	CP				10	7	8	11				

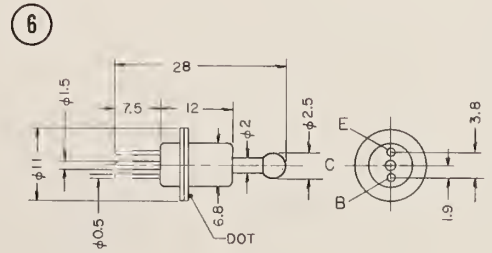


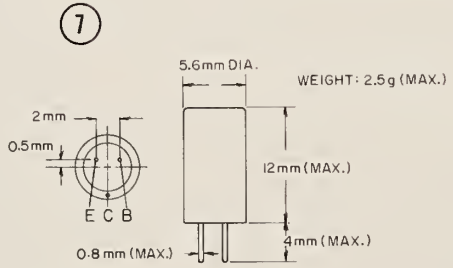


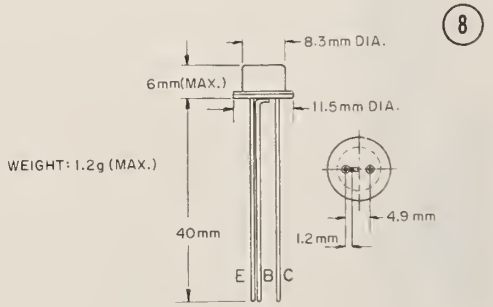












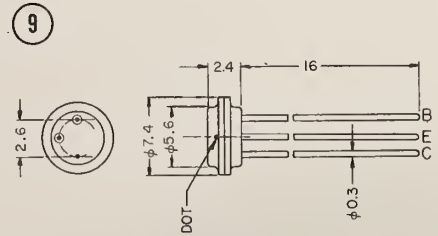
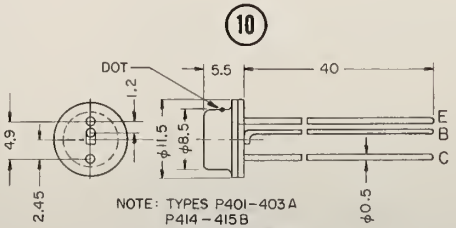
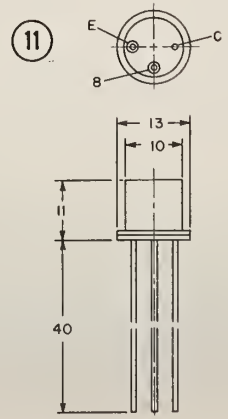
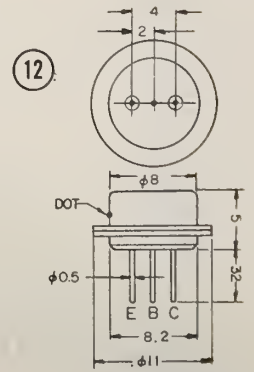


FIG. 9A LEADS ARE ARRANGED E, C AND 8 DOWNWARD



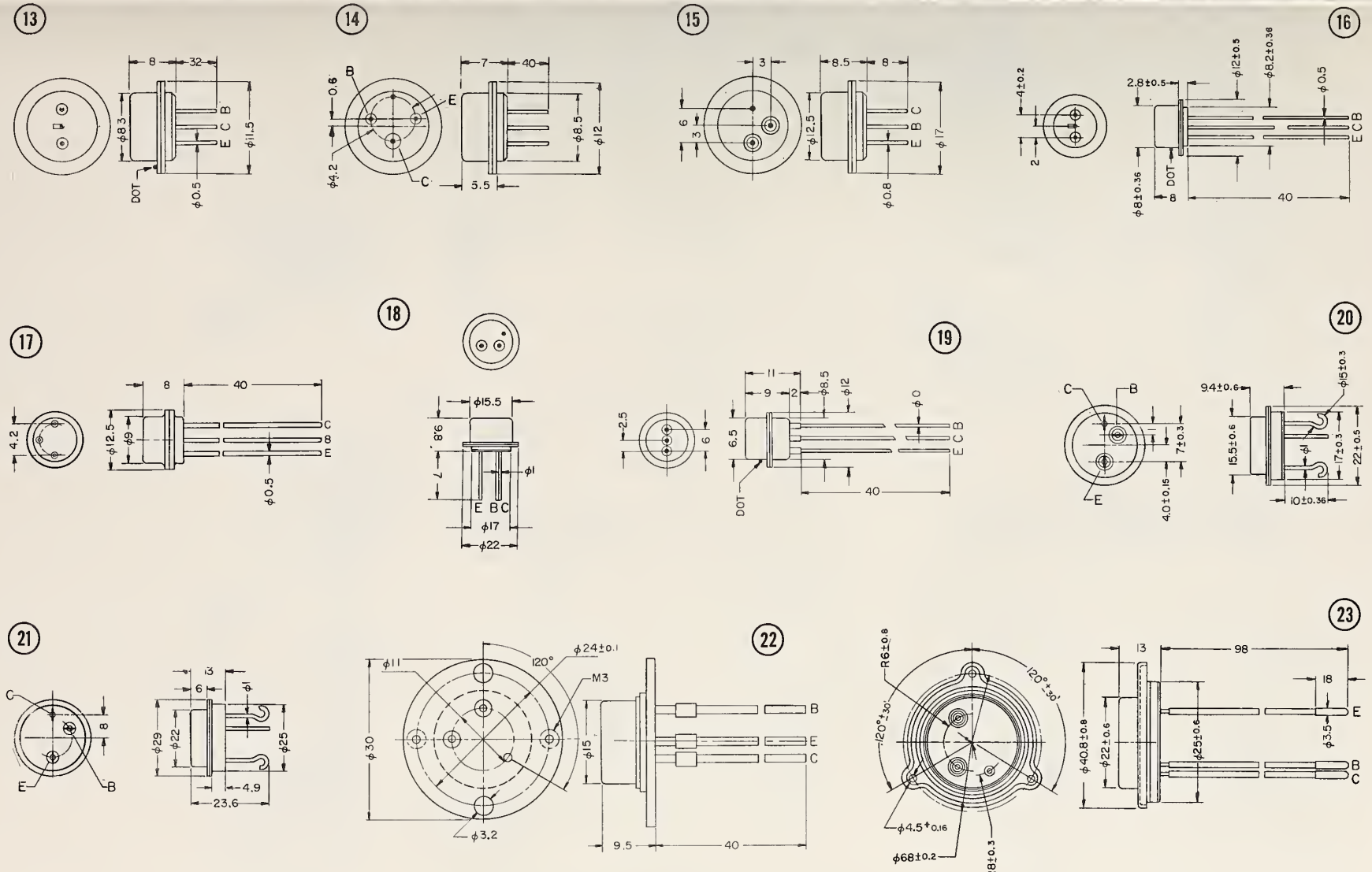




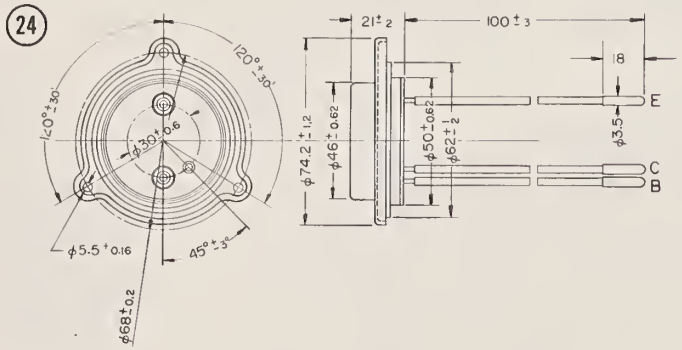
NOTE: TYPES GT 308, GT 311 AND GT 313 LEADS ARE ARRANGED E, C AND 8

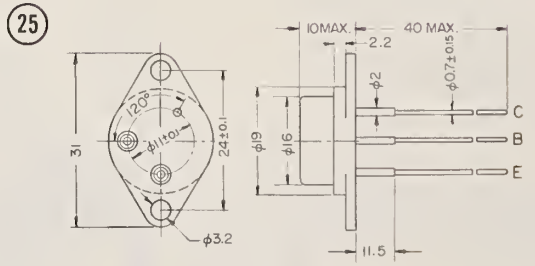
TRANSISTOR OUTLINE DRAWINGS

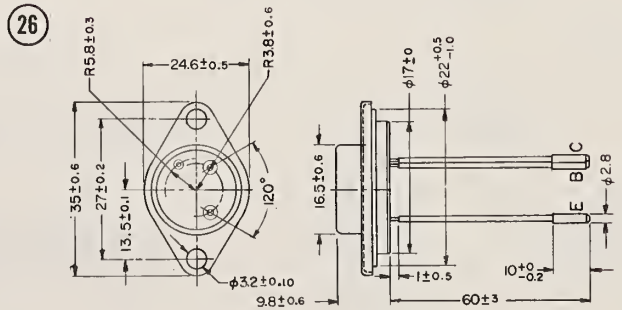
GROUP X

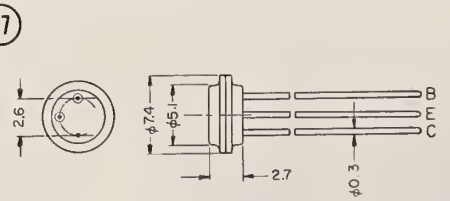


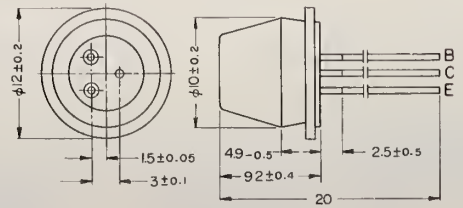
TRANSISTOR OUTLINE DRAWINGS
(CON'T)

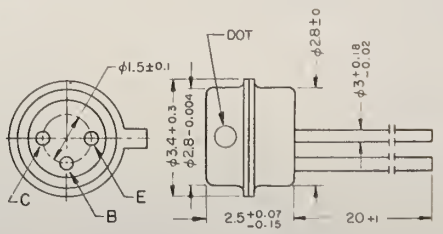




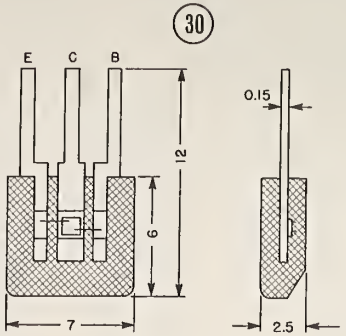


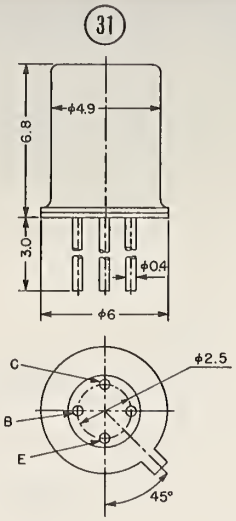


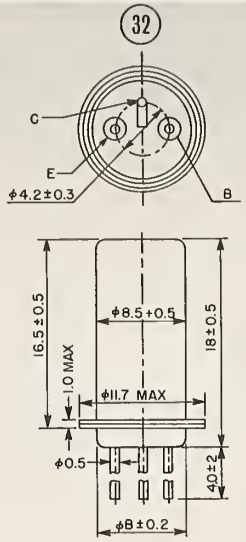


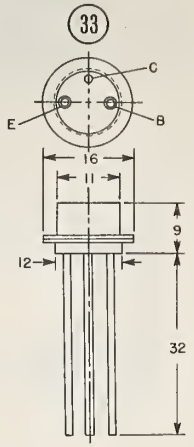


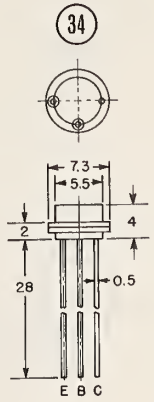
TRANSISTOR OUTLINE DRAWINGS

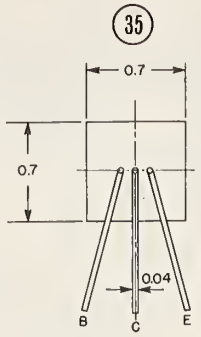


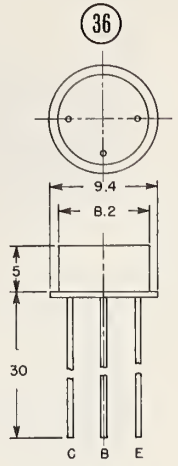


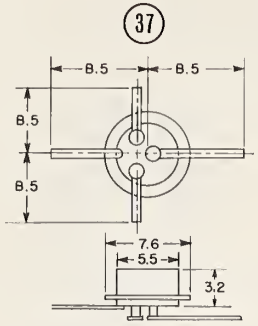


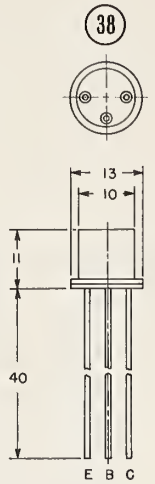












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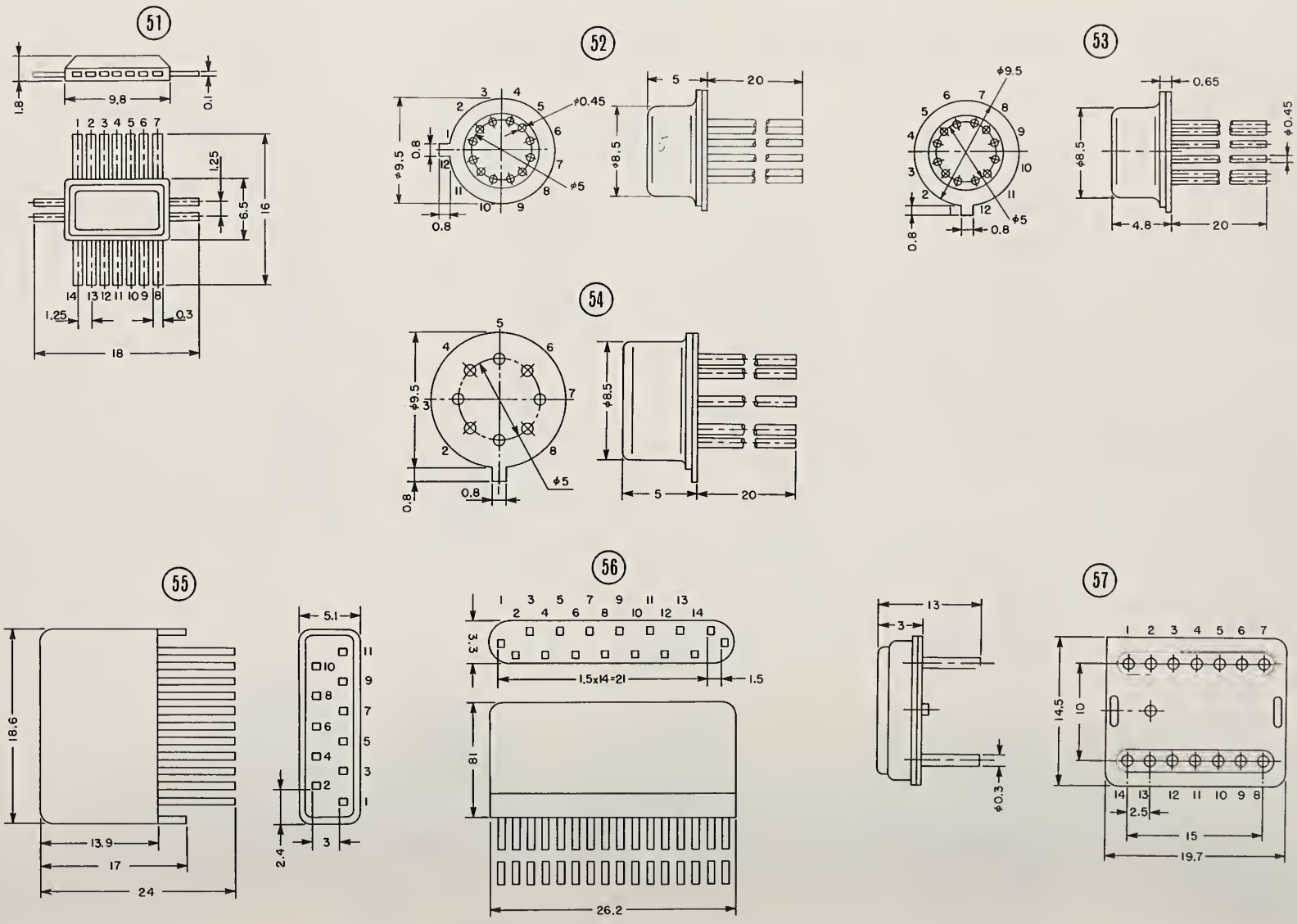

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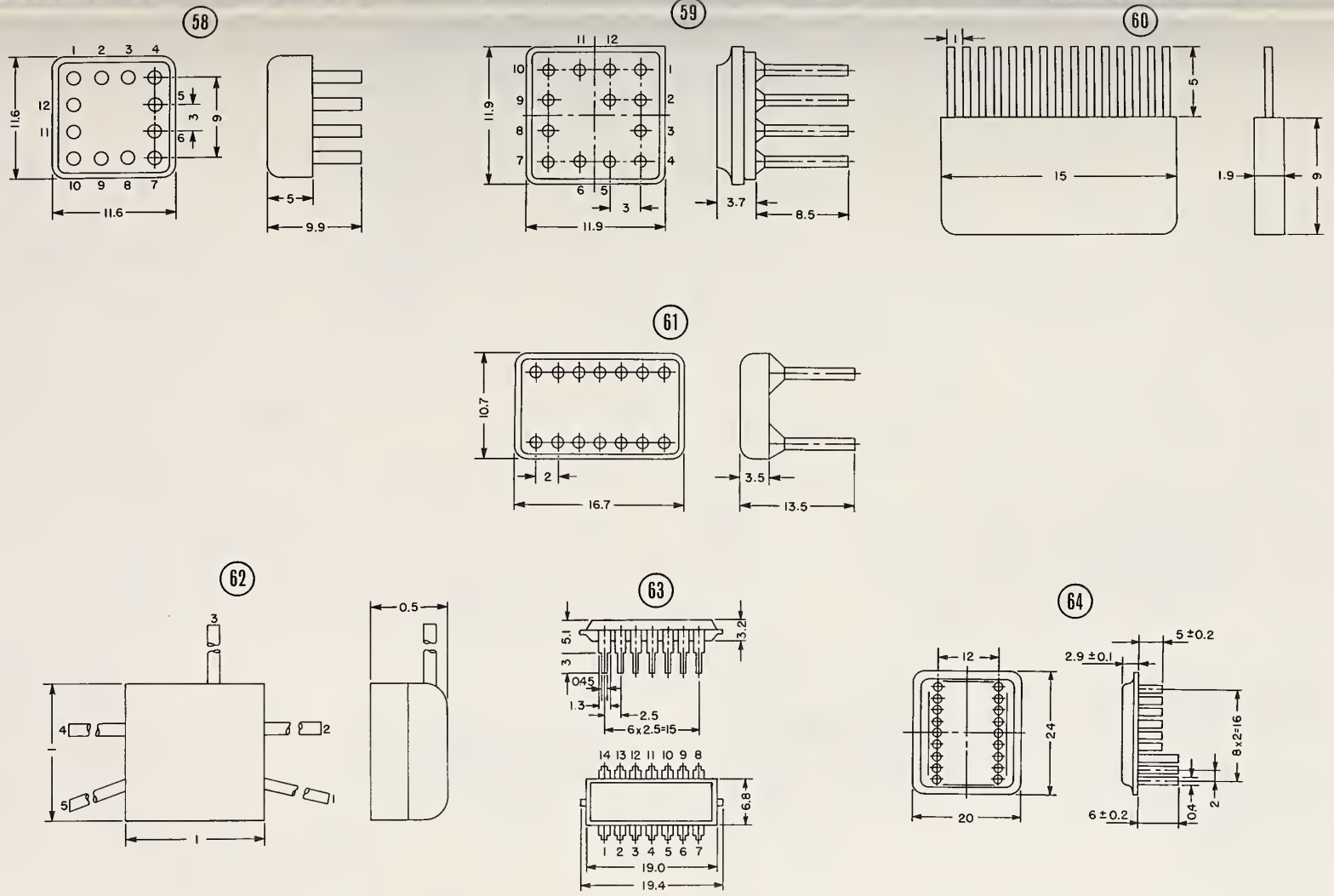

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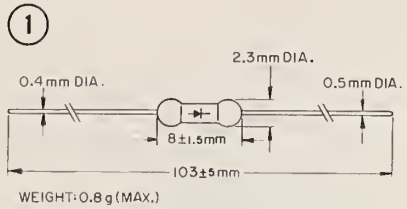
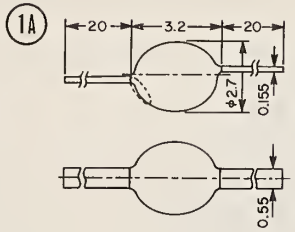
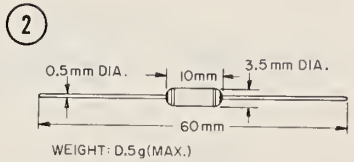
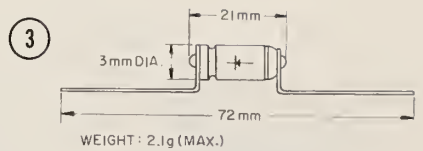
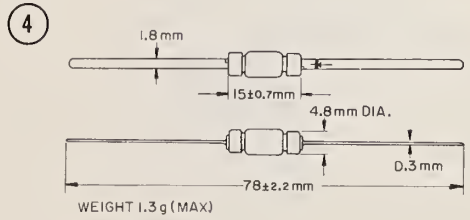
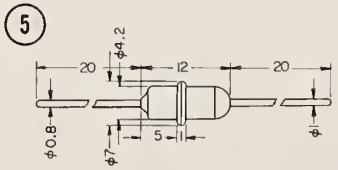


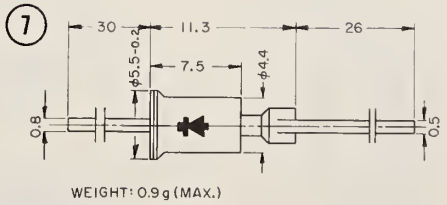


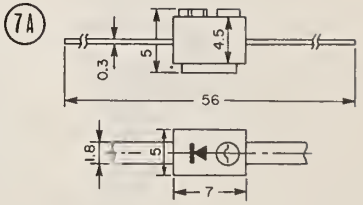


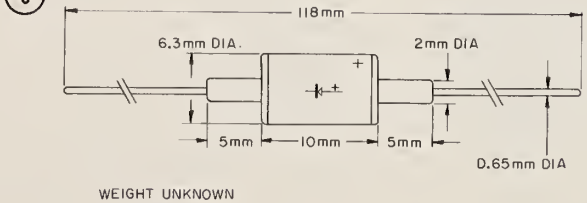


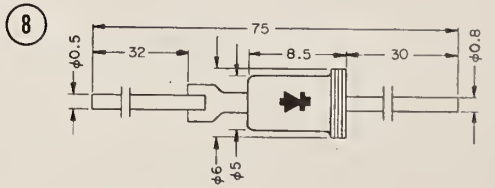


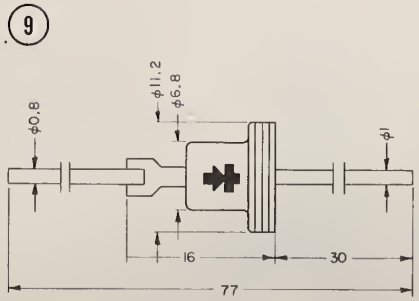


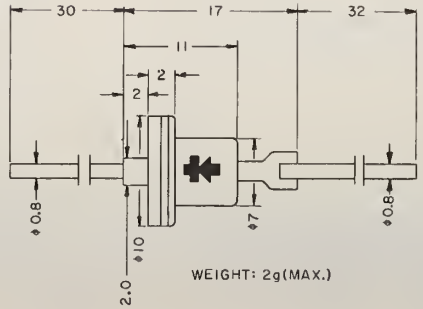


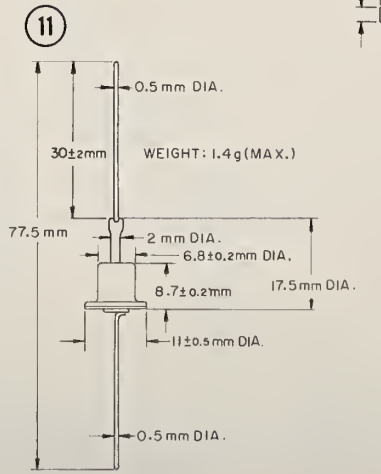


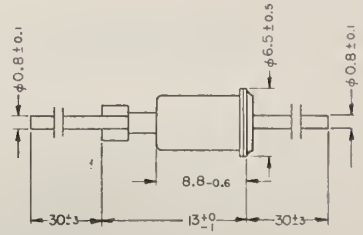






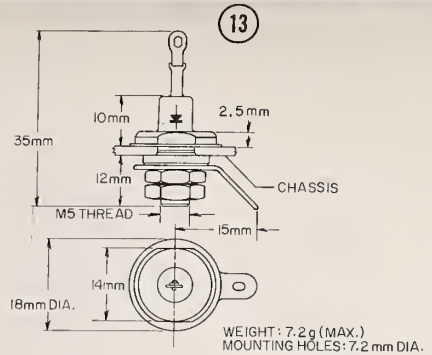


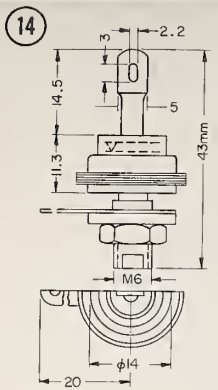


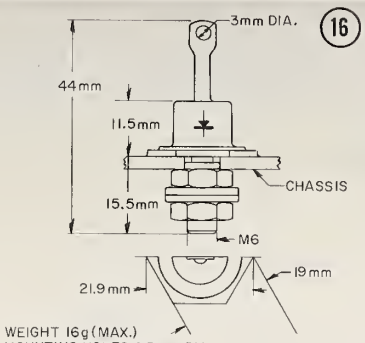


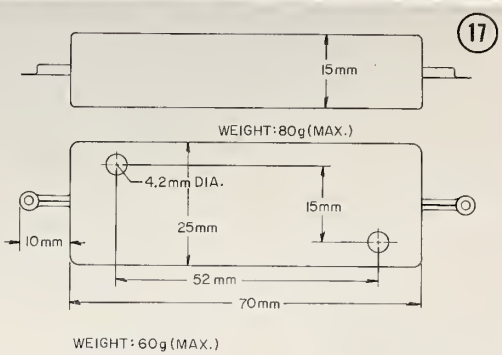
DIODE OUTLINE DRAWINGS

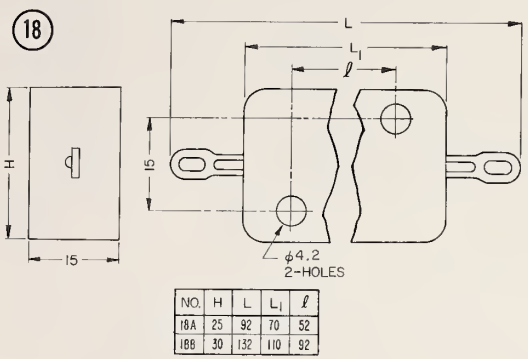
GROUPS XI, XII, XIII & XIV



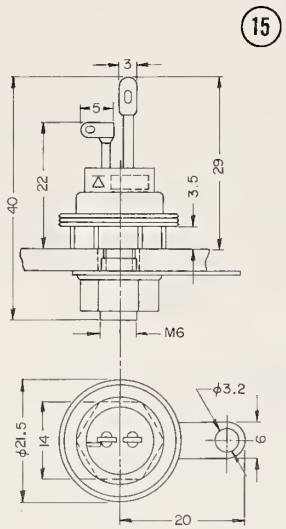


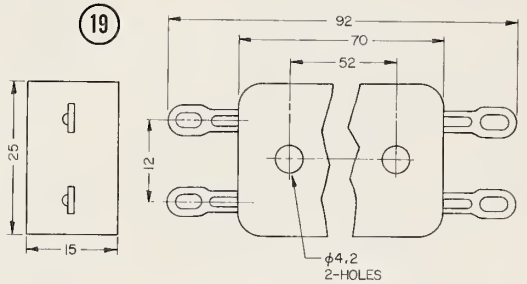


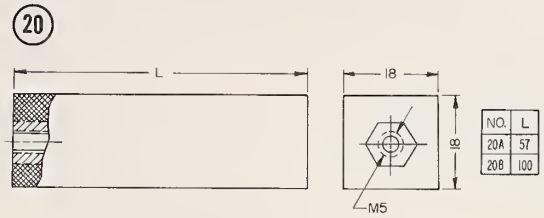




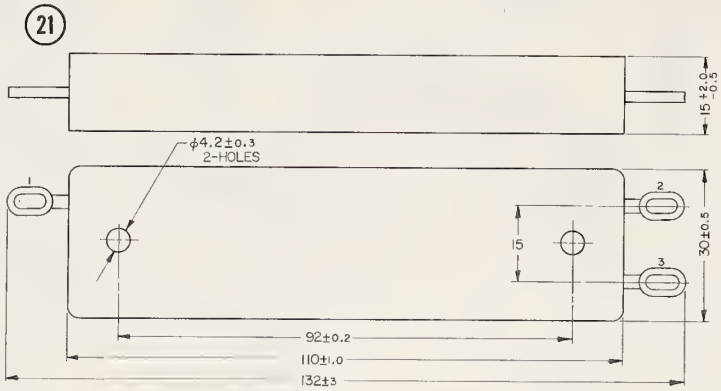
NO.	H	L	L_1	ℓ
18A	25	92	70	52
18B	30	132	110	92







NO.	L
20A	57
20B	100



DIODE OUTLINE DRAWINGS
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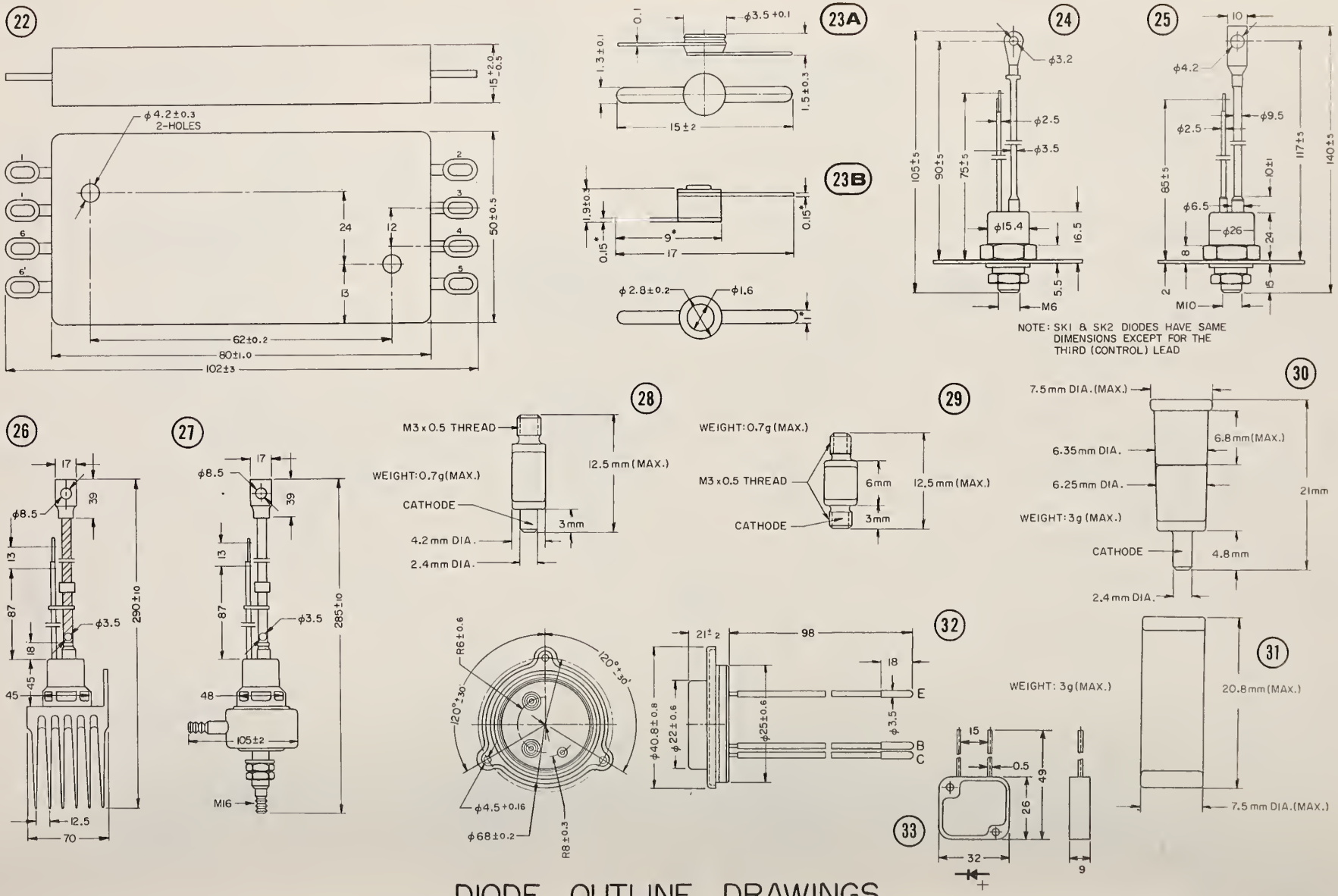

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